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Environment Canada Environnement Canada

Surface Water Data

Manitoba

Données sur les eaux de surface

1990

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1991

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1990 calendar year, the results of the hydrometric survey investigations which were made in Manitoba by the Water Survey of Canada.

Details on individual stations and related records, as well as recent data which have not yet been published, may be obtained upon application to:

Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 983-2435)

or to the Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente, pour l'année civile 1990, les résultats des relevés hydrométriques que la Division des relevés hydrologiques du Canada a effectués au Manitoba.

En s'adressant aux endroits ci-après, on peut obtenir des renseignements supplémentaires sur certaines stations particulières et divers relevés, ainsi que des données récentes non encore publiées:

Direction des ressources en eau
Ministère de l'Environnement
521 Édifice fédéral
269, rue Main
Winnipeg (Manitoba)
R3C 1B2
(204 983-2435)

ou au Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

During 1990, the hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

En 1990, la Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975, and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to the following organizations:

Federal – Department of Public Works;
Agriculture Canada, PFRA.

Provincial – Manitoba Hydro, Manitoba;
Department of Natural Resources, Water Resources Branch, Manitoba.

Municipal – City of Winnipeg Hydro-Electric System, Manitoba.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable aux organismes suivants de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques:

Niveau fédéral – Ministère des Travaux publics,
Agriculture Canada (ARAP).

Niveau provincial – Hydro-Manitoba,
Ministère des Ressources naturelles, Direction des ressources en eau, Manitoba.

Niveau municipal – *Hydro-Electric System* de Winnipeg,
Manitoba.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degres Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are presented in the International System of Units (SI) and future editions will be published biennially. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and the discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

METHOD OF TABULATION OF SURFACE WATER DATA

For gauging stations where a systematic record of water level or discharge was obtained during the year under review, the following are given where available:

1. Table of daily water level or discharge;
2. Summary of monthly and annual data;
3. Descriptive information.

1. *The table of daily water level* or *discharge* gives the daily water level in metres or the daily discharge in cubic metres per second at the gauging station.

The following standard symbols are used opposite the daily stage or discharge to which they apply:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

PRÉSENTATION SOUS FORME DE TABLEAUX DES DONNÉES SUR LES EAUX DE SURFACE

Pour les stations de jaugeage où on a effectué, au cours de l'année étudiée, un relevé systématique du débit ou du niveau, les données suivantes sont présentées, pour autant qu'elles soient disponibles:

1. un tableau du niveau ou du débit quotidien;
2. un extrait des données mensuelles et annuelles;
3. des renseignements descriptifs.

1. *Le tableau du niveau* ou *du débit quotidien* donne la hauteur des eaux, en mètres ou le débit, en mètres cubes par seconde, mesuré à la station de jaugeage.

Les symboles normalisés donnés ci-après sont inscrits à côté des valeurs auxquelles ils se rapportent:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

2. *A summary of monthly and annual data* is given below the table of daily data.

For stations where only water level data are obtained, both a monthly and annual summary are given.

The monthly summary gives:
(a) the mean water level in metres for complete months;
(b) the maximum and minimum daily water level in metres.

The summary for the year gives:
(a) the mean water level in metres for complete years;
(b) the maximum and minimum daily water levels and their dates of first occurrence where applicable;
(c) the maximum instantaneous water level and the time of occurrence where available.

For stations where discharge data are collected, both a monthly and annual summary are given.

The monthly summary gives:
(a) the total of the daily discharge values for complete months;
(b) the mean discharge in cubic metres per second;
(c) the total discharge in cubic decametres;
(d) the maximum and minimum daily discharges in cubic metres per second.

The summary for the year or period gives:
(a) the mean discharge in cubic metres per second;
(b) the total discharge in cubic decametres;
(c) the maximum and minimum daily discharges and their dates of first occurrence;
(d) the maximum instantaneous discharge and the time of occurrence, where available.

3. *The descriptive information* about the gauging station is also given below the table of daily data and will indicate the following where applicable:

International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.
(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.
(c) Power Plant Rating – this indicates that records were obtained using the latest available rating of the Power Plant.

2. *Un extrait des données mensuelles et annuelles* est donné au-dessous du tableau des données quotidiennes.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on n'a mesuré que le niveau.

L'extrait mensuel donne:
(a) le niveau moyen en mètres pour le mois entier, et
(b) les niveaux quotidiens maximal et minimal en mètres.

L'extrait annuel donne:
(a) le niveau moyen en mètres pour l'année entière;
(b) les niveaux quotidiens maximal et minimal ainsi que les dates de leur première observation, s'il y a lieu, et
(c) le niveau maximal instantané et l'heure de l'observation, s'il y a lieu.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on n'a mesuré que le débit.

L'extrait mensuel donne:
(a) le total des valeurs quotidiennes du débit, pour le mois entier;
(b) le débit moyen en mètres cubes par seconde;
(c) le débit total en décamètres cubes, et
(d) les débits quotidiens maximal et minimal en mètres cubes par seconde.

L'extrait annuel ou périodique donne:
(a) le débit moyen en mètres cubes par seconde;
(b) le débit total en décamètres cubes;
(c) les débits quotidiens maximal et minimal ainsi que les dates de première observation, s'il y a lieu, et
(d) le débit maximal instantané et l'heure de l'observation, s'il y a lieu.

3. *Les renseignements descriptifs* sur les stations de jaugeage sont également présentés sous le tableau des données quotidiennes et apportent les précisions qui suivent, s'il y a lieu:

Stations internationales de jaugeage (International Gauging Stations) – Dans les eaux contiguës aux frontières, on a désigné certaines stations comme «internationales», et les données prélevées sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publication et les *United States Water Supply Papers* proviennent de variantes dans les techniques de traitement automatique des données.

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau et le débit d'un cours d'eau:

(a) Manuelle (Manual) – indique qu'un appareil non enregistreur sert à obtenir une fois par jour les données sur le niveau et le débit d'un cours d'eau.
(b) Enregistreuse (Recording) – indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux tracé sur une carte analogique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.
(c) Régime des stations hydrauliques (Power Plant Rating) – indique qu'on a obtenu les données grâce aux valeurs les plus récentes des régimes mesurés dans les stations hydrauliques.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage Area – this is the latest available drainage area and refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station. For a gauging station on a lake, this refers to the total drainage area at the outlet of the lake.

Contributed Data – if data were supplied in their entirety by an outside agency, the name of the co-operating agency is given.

Natural Flow or *Regulated* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Gauge Datum – for stations where only water level data are available, the name of the datum, to which water levels are referred, is given as well as an equation to convert to another datum if applicable. Detailed information on the description of the bench marks to which water levels are referred is available from the appropriate Regional Chief.

Remarks – unusual conditions which occur at a station are explained.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Recent revisions, corrections or additions made to the historical discharges and water levels are indicated by an "R" symbol in the summary publications. This "R" symbol is deleted from the data bank after publication of the summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à un endroit éloigné de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage Area) – Il s'agit de la superficie du bassin versant déterminée d'après les cartes les plus récentes et désigne la zone délimitée par une ligne de partage des eaux de sorte que l'écoulement d'averse est entraîné par gravité vers le cours d'eau en amont de la station. S'il s'agit d'une station située sur un lac, elle représente la superficie totale jusqu'à l'émissaire du lac.

Données fournies (Contributed Data) – Nom de l'organisme extérieur qui a fourni les données.

Débit naturel ou *régularisé* (Natural Flow or Regulated) – Un débit reconnu comme naturel est indiqué comme tel. Le débit de plusieurs réseaux hydrographiques est modifié par une régularisation qui est effectuée en amont. Il arrive parfois que l'importance de cette régularisation ne soit pas connue, et elle n'est donc pas indiquée. Cependent, quand on sait que la régularisation est d'une certaine importance, on l'indique ainsi que l'année où elle a débuté (si elle est connue).

Plan de référence des jauges (Gauge Datum) – Pour les stations dans lesquelles on ne mesure que le niveau de l'eau, on indique le plan de référence de la jauge en question et l'équation permettant, au besoin, de convertir ce plan en un autre plan. En s'adressant au chef régional concerné, on peut obtenir des renseignements plus précis au sujet des niveaux de référence auxquels correspondent les niveaux mesurés.

Remarques (Remarks) – Les conditions inhabituelles qui prévalent à une station sont expliquées.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées récemment aux débits chronologiques et aux niveaux d'eau sont accompagnées du symbole «R» dans les publications sommaires. Ce symbole «R» est omis de la banque de données après la publication des sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship; or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de référence,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0,001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0,01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

SURFACE WATER DATA/DONNÉES SUR LES EAUX DE SURFACE

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.276B	0.240B	0.220B	0.305B	13.2B	33.1 E	5.92	2.04A	6.75	8.27	4.52B	2.14B	1
2	0.274B	0.240B	0.220B	0.325B	13.0B	31.8 E	5.77	3.18E	8.59	8.02	4.16B	2.10B	2
3	0.272B	0.240B	0.218B	0.342B	12.0B	29.0 E	6.18	4.52E	11.6	7.61	3.93B	2.06B	3
4	0.272B	0.238B	0.218B	0.355B	11.2B	27.7 A	6.17	5.82A	14.6	7.85	3.70B	2.02B	4
5	0.270B	0.238B	0.216B	0.375B	10.6B	26.2	6.41	6.85A	16.3	8.50	3.49B	1.98B	5
6	0.268B	0.238B	0.216B	0.385B	10.4B	25.5	6.44	8.17	16.2	8.00	3.38B	1.94B	6
7	0.268B	0.236B	0.216B	0.392B	10.3B	22.9	6.00	8.20	15.9	7.67	3.24B	1.90B	7
8	0.266B	0.236B	0.214B	0.400B	10.3B	21.1	5.45	7.93	14.9	7.61	3.14B	1.87B	8
9	0.266B	0.236B	0.214B	0.420B	10.5B	18.6	4.88	6.84	13.1	7.50A	3.10B	1.83B	9
10	0.264B	0.236B	0.212B	0.428B	10.7B	17.3	4.80	6.57	12.2	7.62	3.04B	1.81B	10
11	0.262B	0.234B	0.212B	0.432B	10.9B	17.5	4.56	6.01	11.1	7.88	2.98B	1.79B	11
12	0.262B	0.234B	0.212B	0.428B	11.6B	17.9	4.88	5.17	10.5	8.24	2.94B	1.77B	12
13	0.260B	0.234B	0.210B	0.400B	12.2B	18.5	4.95	5.29	10.0	8.01	2.88B	1.76B	13
14	0.260B	0.234B	0.210B	0.375B	13.2B	19.5	3.91	5.22	9.83	8.26A	2.82B	1.74B	14
15	0.258B	0.232B	0.208B	0.350B	15.2B	21.1	3.26	5.10	9.73	8.92	2.78B	1.73B	15
16	0.258B	0.232B	0.208B	0.330B	20.6B	19.2	3.04	4.94	10.1	9.08	2.74B	1.71B	16
17	0.256B	0.230B	0.208B	0.310B	27.0B	17.9	2.92	4.46	10.6	8.10	2.70B	1.69B	17
18	0.254B	0.230B	0.206B	0.300B	23.8B	17.2	2.68	3.86	11.1	8.53	2.64B	1.68B	18
19	0.254B	0.230B	0.206B	0.296B	21.9B	16.4	2.50	3.91	10.8	7.92	2.58B	1.66B	19
20	0.252B	0.228B	0.206B	0.298B	27.0B	15.8 A	2.34	3.94	10.1	7.66	2.54B	1.65B	20
21	0.252B	0.228B	0.204B	0.300B	33.8E	14.8	2.21	3.89	9.67	7.87	2.50B	1.63B	21
22	0.250B	0.226B	0.204B	0.307B	39.5E	14.8	2.35	3.71	9.40	7.81	2.46B	1.62B	22
23	0.250B	0.226B	0.202B	0.315B	40.9E	14.4	2.07	3.56	9.65	43	2.42B	1.60B	23
24	0.246B	0.226B	0.202B	0.325B	41.6E	13.7	2.10	3.56	8.80	24	2.38B	1.59B	24
25	0.248B	0.224B	0.202B	0.350B	41.3E	11.8	2.00	3.62	8.60	7.26	2.34B	1.57B	25
26	0.246B	0.224B	0.200B	0.420B	40.9E	10.2	2.06	3.89	8.53	6.79	2.30B	1.56B	26
27	0.246B	0.222B	0.220B	0.800B	40.2E	7.70	2.07	4.07	8.16A	6.23B	2.26B	1.55B	27
28	0.244B	0.222B	0.256B	2.18 B	38.8E	6.67	2.08	4.31	8.01	5.85B	2.22B	1.53B	28
29	0.244B		0.270B	5.60 B	38.1E	6.36	2.50	4.42	8.13	5.60B	2.18B	1.52B	29
30	0.242B		0.280B	9.65 B	35.9E	6.26	2.35	4.44	8.41	5.15B	2.16B	1.50B	30
31	0.240B		0.296B		34.9E		2.13	5.42		4.76B		1.49B	31
TOTAL	7.982	6.494	6.786	27.493	721.5	541.09	116.98	152.51	321.36	233.24	86.52	53.99	TOTAL
MEAN	0.258	0.232	0.219	0.916	23.3	18.0	3.77	4.92	10.7	7.52	2.88	1.74	MEAN
MAX	0.276	0.240	0.296	9.65	41.6	33.1	6.44	8.20	16.3	9.08	4.52	2.14	MAX
MIN	0.240	0.222	0.200	0.296	10.3	6.26	2.00	2.04	6.75	4.76	2.16	1.49	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.24
MAXIMUM DAILY, 41.6E ON MAY 24
MINIMUM DAILY, 0.200B ON MAR 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 40 39 N
LONG 093 38 20 W
DRAINAGE AREA, 1 560 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	690	JUL 10	100
FEB	561	AUG 13	200
MAR	586	SEP 27	800
APR 2	380	OCT 20	200
MAY 62	300	NOV 7	480
JUN 46	800	DEC 4	660

TOTAL DISCHARGE, 197 000 dam³

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0B	0B	0	0	0	0	0	0	0	0B	1
2	0B	0B	0B	0B	0	0	0	0	0	0	0	0B	2
3	0B	0B	0B	0B	0	0	0	0	0	0	0	0B	3
4	0B	0B	0B	0B	0	0	0	0	0	0	0	0B	4
5	0B	0B	0B	0B	0	0	0	0	0	0	0	0B	5
6	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	6
7	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	7
8	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	8
9	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	9
10	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	10
11	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	11
12	0B	0B	0B	0B	0	0	0	0	0	0	0B	0B	12
13	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	13
14	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	14
15	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	15
16	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	16
17	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	17
18	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	18
19	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	19
20	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	20
21	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	21
22	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	22
23	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	23
24	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	24
25	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	25
26	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	26
27	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	27
28	0B	0B	0B	0	0	0	0	0	0	0	0B	0B	28
29	0B		0B	0	0	0	0	0	0	0	0B	0B	29
30	0B		0B	0	0	0	0	0	0	0	0B	0B	30
31	0B		0B		0		0	0		0		0B	31
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	TOTAL
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	MEAN
MAX	0	0	0	0	0	0	0	0	0	0	0	0	MAX
MIN	0	0	0	0	0	0	0	0	0	0	0	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0B ON JAN 01
MINIMUM DAILY, 0B ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 34 N
LONG 101 02 56 W
DRAINAGE AREA, 3 210 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	0
FEB	0	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	0
JUN	0	DEC	0

TOTAL DISCHARGE, 0 dam³

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.81	0.571	0.006	0.001	0	0	0.030	---	---	1
2	---	---	0 B	1.74	0.498	0.009	0.001	0	0	0.038	---	---	2
3	---	---	0 B	2.65	0.469	0.012	0.021	0	0	0.033	---	---	3
4	---	---	0 B	2.84	0.409	0.009	0.017	0	0.011E	0.030	---	---	4
5	---	---	0 B	2.25	0.341	0.014	0.015	0	0.001E	0.027	---	---	5
6	---	---	0 B	2.46	0.251	0.019	0.035	0	0	0.020	---	---	6
7	---	---	0 B	1.70	0.220	0.022	0.044	0	0	0.020	---	---	7
8	---	---	0 B	2.53	0.188	0.042	0.051	0	0	0.020	---	---	8
9	---	---	0 B	2.57	0.161	0.048	0.038	0	0	0.017	---	---	9
10	---	---	0.043B	1.60	0.140	0.052	0.026	0	0	0.013	---	---	10
11	---	---	0.142B	1.23	0.119	0.067	0.019	0	0	0.008	---	---	11
12	---	---	0.295B	1.16	0.090	0.064	0.013	0	0	0.006	---	---	12
13	---	---	0.565B	0.839	0.066	0.164	0.005	0	0	0.009	---	---	13
14	---	---	1.10 B	0.763	0.050	0.058	0.001	0	0	0.007	---	---	14
15	---	---	0.810	0.983	0.035	0.026	0.001	0	0	0.006	---	---	15
16	---	---	0.414B	1.19	0.077	0.015	0.001	0	0	0.007	---	---	16
17	---	---	0.259B	0.964	0.135	0.051	0.042	0	0	0.006	---	---	17
18	---	---	0.273B	0.992	0.162	0.118	0.059	0	0	0.004	---	---	18
19	---	---	0.192B	1.64	0.175	0.550	0.030	0	0	0.004	---	---	19
20	---	---	0.248B	1.42	0.157	0.632	0.015	0	0.008A	0.017	---	---	20
21	---	---	0.448B	2.04	0.118	0.342	0.006	0	0.011	0.019	---	---	21
22	---	---	0.231B	1.66	0.091	0.184	0	0	0.015	0.013	---	---	22
23	---	---	0.242B	1.31	0.076	0.106	0	0	0.013	0.012	---	---	23
24	---	---	0.393B	1.10	0.060	0.068	0	0	0.014	0.009	---	---	24
25	---	---	0.126B	1.05	0.037	0.046	0	0	0.008	0.010	---	---	25
26	---	---	0.076B	1.09	0.027	0.030	0	0	0.001	0.010	---	---	26
27	---	---	0.157B	1.08	0.021	0.021	0.005	0	0.001	0.016	---	---	27
28	---	---	0.383B	0.994	0.015	0.014	0	0	0.017	0.016	---	---	28
29	---	---	0.372B	0.903	0.012	0.006	0	0	0.015	0.014A	---	---	29
30	---		2.24 B	0.735	0.008	0.001	0	0	0.021	0.012E	---	---	30
31	---		4.37		0.007		0	0		0.010E		---	31
TOTAL	---	---	13.379	45.293	4.786	2.796	0.446	0	0.136	0.463	---	---	TOTAL
MEAN	---	---	0.432	1.51	0.154	0.093	0.014	0	0.005	0.015	---	---	MEAN
MAX	---	---	4.37	2.84	0.571	0.632	0.059	0	0.021	0.038	---	---	MAX
MIN	---	---	0	0.735	0.007	0.001	0	0	0	0.004	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.275
MAXIMUM DAILY, 4.37 ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
5.44 AT 04:00 CST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 05 10 N
LONG 100 57 30 W

DRAINAGE AREA, 670 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	38.5
FEB	---	AUG	0
MAR	1 160	SEP	11.8
APR	3 910	OCT	40.0
MAY	414	NOV	---
JUN	242	DEC	---

TOTAL DISCHARGE, 5 820 dam³

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.71B	7.71B	14.6B	34.2B	112	48.8	40.2	25.7	13.9	23.2	18.0	11.3 B	1
2	9.74B	7.71B	14.6B	43.3B	113	50.6	39.3	25.1	13.8	18.1	17.4	12.8 B	2
3	9.86B	7.56B	14.2B	61.0B	113	50.9	38.3	24.5	13.9	13.9	17.2	17.3 B	3
4	9.83B	6.81B	13.9B	76.3B	112	52.0	37.4	24.1	14.1	11.4	17.8	18.1 B	4
5	9.81B	7.04B	15.0B	84.8B	106	52.6	38.6	23.6	13.0	12.4	17.7	17.7 B	5
6	9.59B	7.01B	15.3B	97.3B	97.4	50.7	38.0	23.8	13.4	12.4	16.5	17.1 B	6
7	9.63B	7.11B	15.2B	103 B	94.5	48.4	37.0	23.8	13.2	10.7	15.0	15.8 B	7
8	9.54B	7.03B	15.4B	112 B	84.3	47.5	33.1	23.3	11.8	9.99	9.53	13.7 B	8
9	9.44B	7.11B	15.8B	112 B	72.9	48.8	33.9	23.0	11.5	10.7	11.9	11.2 B	9
10	9.56B	7.36B	15.7B	104 B	65.8	51.0	34.2	22.6	10.7	10.7	14.9	11.0 B	10
11	9.54B	7.58B	15.8B	96.0B	64.0	53.4	33.1	22.7	10.2	11.5	13.2	11.2 B	11
12	9.60B	7.55B	16.0B	95.0B	56.7	52.4	33.4	22.9	10.3	11.6	11.3	12.0 B	12
13	9.80B	7.68B	15.7B	95.2B	58.0	48.2	33.4	23.1	8.99	10.6	14.0	12.2 B	13
14	9.67B	7.66B	15.7B	94.1B	55.8	43.6	33.4	23.1	8.23	11.2	11.1	12.7 B	14
15	9.59B	7.72B	17.4B	92.8B	52.4	41.5	33.0	22.4	8.41	12.4	12.7 B	11.7 B	15
16	9.63B	8.20B	23.1B	103 B	46.5	40.7	32.3	22.1	8.36	13.4	14.2 B	11.0 B	16
17	9.64B	8.23B	31.2B	118 B	47.7	39.2	32.3	21.7	7.92	13.7	17.6 B	10.7 B	17
18	9.53B	9.00B	29.7B	140 B	48.9	38.3	32.0	20.2	8.44	12.4	18.5 B	10.7 B	18
19	8.36B	10.5 B	23.9B	176 B	52.4	38.8	32.2	19.1	9.26	13.3	18.2 B	11.1 B	19
20	7.92B	10.0 B	20.7B	140	54.4	39.4	32.5	18.4	14.3	12.8	18.6 B	10.9 B	20
21	7.90B	9.94B	22.9B	134	56.5	39.1	31.9	17.9	17.8	12.6	18.4 B	10.3 B	21
22	7.84B	11.0 B	31.2B	111	55.2	39.6	30.9	17.6	15.1	12.7	41.0 B	9.61B	22
23	7.82B	11.4 B	33.3B	92.6	52.3	39.5	30.5	17.6	12.2	12.7	58.6 B	9.47B	23
24	7.87B	11.9 B	32.6B	77.0	49.2	38.4	29.9	19.0	10.7	12.7	42.1 B	9.63B	24
25	7.91B	12.3 B	30.8B	69.4	46.9	38.0	28.7	21.0	10.0	12.5	27.4 B	9.95B	25
26	7.87B	12.7 B	29.3B	76.9	44.5	37.9	27.1	20.7	9.32	12.4	21.9 B	9.71B	26
27	7.84B	13.3 B	27.6B	90.6	39.0	39.5	26.2	19.8	14.6	13.3	18.6 B	9.60B	27
28	7.77B	14.0 B	25.5B	98.9	40.3	41.2	25.8	19.5	20.7	14.2	16.4 B	9.68B	28
29	7.72B		24.1B	106	42.2	42.2	25.5	17.0	23.7	14.8	15.4 B	9.71B	29
30	7.75B		21.1B	111	45.4	41.8	25.5	16.0	25.6	15.4	10.5 B	9.64B	30
31	7.73B		26.1B		47.7		25.8	14.9		17.2		9.69B	31
TOTAL	276.01	253.11	661.9	2 945.4	2 026.9	1 334.3	1 005.3	655.4	383.43	406.29	572.63	366.79	TOTAL
MEAN	8.90	9.04	21.4	98.2	65.4	44.5	32.4	21.1	12.8	13.1	19.1	11.8	MEAN
MAX	9.86	14.0	33.3	176	113	53.4	40.2	25.7	25.6	23.2	58.6	18.1	MAX
MIN	7.72	6.81	13.9	34.2	39.0	37.9	25.5	14.9	7.92	9.99	9.53	9.47	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 29.8
MAXIMUM DAILY, 176B ON APR 19
MINIMUM DAILY, 6.81B ON FEB 04
MAXIMUM INSTANTANEOUS,
227B AT 12:00 CST ON APR 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 09 N
LONG 097 24 10 W

DRAINAGE AREA, 153 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	23 800	JUL	86 900
FEB	21 900	AUG	56 600
MAR	57 200	SEP	33 100
APR	254 000	OCT	35 100
MAY	175 000	NOV	49 500
JUN	115 000	DEC	31 700

TOTAL DISCHARGE, 940 000 dam³

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.19B	8.94B	12.6B	54.8B	97.5	39.5	26.9	23.1	10.2	8.29	14.9	12.8 B	1
2	9.20B	8.85B	12.5B	57.4B	88.3	36.6	27.7	24.1	9.04	8.55	14.6	13.1 B	2
3	9.00B	8.80B	12.3B	60.3B	77.6	37.6	26.8	24.4	8.65	8.31	14.0	13.1 B	3
4	9.10B	8.72B	12.4B	60.5B	67.3	35.2	26.4	23.7	8.11	8.07	13.7	13.3 B	4
5	8.96B	8.61B	12.5B	59.0B	59.8	33.7	25.6	22.8	7.86	8.48	13.5	13.2 B	5
6	8.88B	8.75B	12.6B	61.0B	54.6	32.5	25.9	22.6	7.70	10.4	12.5B	13.2 B	6
7	8.83B	8.93B	12.6B	61.3B	50.6	31.4	27.6	22.0	7.71	11.2	11.7B	13.0 B	7
8	8.80B	9.62B	12.5B	66.3B	46.8	32.1	29.0	21.3	7.60	11.4	10.9B	12.7 B	8
9	8.88B	10.5 B	12.5B	70.8B	43.1	32.7	28.8	20.7	7.73	11.3	10.9B	12.9 B	9
10	8.82B	11.0 B	12.6B	78.1B	39.8	31.5	28.7	20.1	7.61	11.2	10.7B	12.3 B	10
11	8.81B	11.4 B	13.8B	85.1B	36.7	31.4	28.7	19.4	7.42	10.8	10.3B	12.5 B	11
12	8.69B	12.0 B	15.9B	92.1B	34.1	31.5	29.0	18.7	6.89	10.3	12.5B	12.0 B	12
13	8.68B	12.1 B	24.5B	94.2B	32.2	32.0	29.0	18.0	10.6	10.6	14.9B	11.4 B	13
14	8.62B	12.4 B	30.3B	97.2B	31.1	31.5	29.1	17.5	13.0	10.3	16.3B	10.9 B	14
15	8.68B	12.4 B	31.6B	98.3B	29.5	30.5	29.4	17.4	10.6	9.97	17.5B	10.4 B	15
16	8.48B	12.6 B	29.8B	102 B	34.6	29.3	28.3	17.3	7.97	9.75	16.7B	10.2 B	16
17	8.43B	12.6 B	27.2B	102 A	36.2	28.7	27.5	17.2	7.75	9.68	15.9B	9.72B	17
18	8.39B	12.7 B	26.9B	85.9	34.3	28.9	26.6	17.4	7.74	9.93	15.1B	9.42B	18
19	8.31B	12.7 B	27.0B	76.7	33.1	29.6	25.9	19.4	7.46	11.4	14.9B	8.99B	19
20	8.20B	12.5 B	23.3B	73.1	32.3	30.1	25.3	18.8	7.61	12.3	14.8B	8.32B	20
21	8.07B	12.3 B	21.4B	74.5	31.6	35.2	25.3	16.3	7.68	12.5	14.7B	7.85B	21
22	8.03B	12.3 B	20.2B	79.0	31.1	36.8	25.0	14.3	7.52	12.6	14.5B	7.77B	22
23	7.99B	12.3 B	18.9B	86.9	31.9	36.7	24.5	13.2	7.66	12.8	14.4B	7.91B	23
24	8.12B	12.3 B	18.7B	93.2	35.6	36.3	24.1	12.5	7.72	13.4	14.3B	7.98B	24
25	8.25B	12.4 B	19.6B	98.9	40.4	35.3	24.1	12.3	7.56	14.2	14.2B	7.76B	25
26	8.18B	12.5 B	21.5B	104	43.3	34.0	23.7	12.5	7.76	14.5	14.6B	7.59B	26
27	8.36B	12.6 B	23.3B	108	43.0	32.9	24.2	13.4	8.16	14.6	14.6B	7.68B	27
28	8.41B	12.6 B	24.5B	108	41.8	31.7	23.8	13.9	8.39	15.2	13.7B	7.75B	28
29	8.45B		27.3B	107	41.7	29.8	22.8	13.7	8.64	15.4	13.2B	7.59B	29
30	8.71B		34.8B	104	41.3	28.2	22.4	13.1	8.46	15.4	13.0B	7.56B	30
31	8.89B		48.7B		40.5		22.2	12.3		15.2		7.62B	31
TOTAL	266.41	315.42	652.5	2 496.2	1 381.9	985.5	812.3	553.1	248.80	357.83	417.5	318.51	TOTAL
MEAN	8.59	11.3	21.0	83.2	44.6	32.9	26.2	17.8	8.29	11.5	13.9	10.3	MEAN
MAX	9.20	12.7	48.7	108	97.5	39.5	29.4	24.1	13.0	15.5	17.5	13.3	MAX
MIN	7.99	8.61	12.3	54.8	29.5	28.2	22.2	12.3	6.89	8.07	10.3	7.56	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 24.1
MAXIMUM DAILY, 108 ON APR 27
MINIMUM DAILY, 6.89 ON SEP 12
MAXIMUM INSTANTANEOUS,
109 AT 16:24 CST ON APR 27

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 20 N
LONG 100 06 10 W
DRAINAGE AREA, 85 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	23 000	JUL	70 200
FEB	27 300	AUG	47 800
MAR	56 400	SEP	21 500
APR	216 000	OCT	30 900
MAY	119 000	NOV	36 100
JUN	85 100	DEC	27 500

TOTAL DISCHARGE, 761 000 dam³

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.91B	7.07B	15.4B	40.0B	115	46.5	41.6	28.5	16.9	12.7	21.4	18.7B	1
2	9.91B	7.73B	13.9B	75.2B	110	47.4	40.3	28.3	16.7	12.9	20.9	18.5B	2
3	9.85B	8.30B	14.3B	91.9B	103	46.9	40.9	27.4	16.2	12.8	20.4	18.4B	3
4	9.85B	8.47B	14.5B	91.9B	93.6	45.2	39.8	26.8	14.9	12.3	20.5	18.2B	4
5	9.85B	8.55B	14.0B	96.3B	83.5	43.5	38.0	27.0	14.0	12.1	20.0	18.0B	5
6	9.79B	8.71B	13.8B	97.7B	74.2	42.0	37.1	26.5	13.6	12.2	18.6	17.8B	6
7	9.72B	8.64B	13.6B	83.4B	66.7	41.1	36.6	25.5	13.2	12.2	14.1	17.6B	7
8	9.72B	8.34B	14.2B	79.6B	61.5	40.9	36.2	25.1	12.7	12.2	11.2B	17.4B	8
9	9.72B	8.34B	14.6B	87.2B	57.7	40.3	35.8	23.9	12.2	13.1	10.8B	17.2B	9
10	9.66B	7.88B	15.1B	92.5B	54.9	41.7	35.1	23.5	11.8	14.5	11.1B	17.0B	10
11	9.66B	7.95B	16.0B	93.5B	51.7	40.5	33.9	23.3	11.7	15.2	11.5B	16.9B	11
12	9.66B	8.05B	19.0B	95.9B	48.2	38.7	33.0	23.8	11.3	15.3	11.6B	16.8B	12
13	9.59B	8.34B	26.2B	89.5B	45.7	37.7	32.8	23.2	11.2	15.5	15.2B	16.6B	13
14	9.59B	8.59B	22.6B	89.0B	43.2	37.5	33.4	21.1	11.4	15.8	16.2B	16.4B	14
15	9.59B	8.84B	19.9B	120 B	41.1	37.6	33.3	21.2	10.7	15.7	17.1B	16.3B	15
16	9.53B	9.09B	22.4B	146 B	44.4	37.5	33.3	20.8	10.8	15.6	18.1B	16.1B	16
17	9.53B	10.3 B	36.9B	139 B	49.8	37.1	34.0	20.4	14.7	15.5	19.0B	16.0B	17
18	9.41B	11.8 B	37.5B	125 B	54.6	37.0	33.6	20.3	15.5	14.9	20.0B	15.9B	18
19	9.61B	12.8 B	35.6B	135 B	51.1	38.5	33.9	20.5	13.1	15.1	20.0B	15.7B	19
20	9.42B	12.8 B	34.4B	110 A	47.8	38.4	33.8	21.2	11.8	14.8	19.8B	15.6B	20
21	9.16B	13.4 B	32.9B	101 E	45.5	37.8	32.9	24.7	11.4	14.5	19.6B	15.4B	21
22	8.95B	14.3 B	31.3B	92.2E	44.1	37.5	32.4	23.6	10.9	15.0	18.1B	15.3B	22
23	8.46B	14.8 B	28.4B	86.0A	42.1	39.5	31.7	22.3	11.1	16.2	17.1B	15.2B	23
24	8.49B	15.1 B	23.7B	89.0	41.0	43.7	31.4	20.6	11.4	16.7	17.7B	15.0B	24
25	8.42B	15.1 B	16.7B	97.0	40.6	45.2	31.0	19.2	11.6	17.0	18.3B	14.9B	25
26	8.42B	14.9 B	17.8B	104	42.7	46.2	30.6	18.4	11.8	17.4	18.8B	14.7B	26
27	8.49B	14.8 B	21.7B	107	46.6	45.6	30.7	17.2	11.5	19.4	19.5B	14.6B	27
28	8.20B	14.8 B	23.5B	112	49.2	44.5	30.7	16.6	11.2	20.3	19.3B	14.5B	28
29	8.14B		23.4B	116	49.2	43.8	30.8	17.0	11.1	20.9	19.1B	14.3B	29
30	6.82B		30.3B	115	47.8	42.9	30.3	17.0	11.8	20.8	18.9B	14.1B	30
31	7.42B		44.7B		47.1		28.7	17.3		21.2		14.0B	31
TOTAL	284.54	297.79	708.3	2 987.8	1 793.6	1 256.7	1 057.4	693.2	377.9	479.8	526.2	503.1	TOTAL
MEAN	9.18	10.6	22.8	99.6	57.9	41.9	34.1	22.4	12.6	15.5	17.5	16.2	MEAN
MAX	9.91	15.1	44.7	146	115	46.9	41.6	28.5	16.9	21.2	21.4	18.7	MAX
MIN	6.82	7.07	13.6	40.0	40.6	37.0	28.7	16.6	10.7	12.1	10.8	14.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 30.0
MAXIMUM DAILY, 146B ON APR 16
MINIMUM DAILY, 6.82B ON JAN 30
MAXIMUM INSTANTANEOUS,
158 AT 06:44 CST ON APR 16

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 54 N
LONG 098 53 56 W
DRAINAGE AREA, 152 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	24 600	JUL	91 400
FEB	25 700	AUG	59 900
MAR	61 200	SEP	32 700
APR	258 000	OCT	41 500
MAY	155 000	NOV	45 500
JUN	109 000	DEC	43 500

TOTAL DISCHARGE, 948 000 dam³

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.55B	8.35B	13.5B	39.6B	35.4	24.3	20.7	22.5	7.56	6.56	12.9	11.6 B	1
2	9.39B	8.45B	13.5B	42.9B	29.1	23.6	20.9	22.4	7.37	8.71	12.5	11.5 B	2
3	9.31B	9.73B	13.5B	48.1B	26.2	23.0	22.0	22.1	7.77	9.02	12.4	11.4 B	3
4	9.28B	10.5 B	13.5B	53.4B	24.7	22.9	22.8	21.7	7.46	8.88	12.6	11.3 B	4
5	9.23B	11.2 B	13.6B	58.0B	23.5	22.8	24.1	21.3	7.56	8.81	12.3 B	11.2 B	5
6	9.22B	11.7 B	15.3B	62.3B	22.3	22.9	24.3	21.0	7.57	8.62	12.4 B	11.3 B	6
7	9.22B	12.1 B	17.7B	66.4B	21.4	22.9	24.4	20.1	7.03	8.38	12.7 B	11.6 B	7
8	9.17B	12.6 B	21.2B	73.7B	20.5	22.6	25.5	19.1	6.70	8.28	10.6 B	11.3 B	8
9	9.15B	12.8 B	25.2B	78.7B	19.6	24.1	26.0	18.2	6.44	8.28	12.8 B	11.2 B	9
10	9.24B	13.1 B	28.2B	80.2B	18.8	26.9	26.1	17.8	6.25	8.04	15.4 B	10.9 B	10
11	9.29B	13.4 B	26.3B	81.6B	18.0	25.0	25.7	17.8	6.26	7.85	14.8 B	11.0 B	11
12	9.26B	13.4 B	24.5B	79.1B	17.2	23.7	26.4	17.8	6.21	7.67	13.5 B	11.1 B	12
13	9.15B	13.2 B	22.0B	75.7B	16.7	23.0	26.2	17.8	6.02	7.59	13.0 B	11.0 B	13
14	9.12B	13.2 B	20.9B	75.3B	16.5	22.1	25.0	17.6	5.92	7.90	11.3 B	11.0 B	14
15	9.04B	13.5 B	18.8B	64.4B	16.3	21.7	23.9	17.7	5.93	9.31	11.6 B	10.8 B	15
16	8.74B	13.3 B	16.4B	63.7	16.5	21.4	23.5	17.7	5.93	9.86	12.4 B	9.80B	16
17	8.84B	12.9 B	16.3B	63.0	17.3	21.9	23.1	17.1	5.85	10.4	11.6 B	9.35B	17
18	9.00B	13.0 B	15.8B	64.0	16.6	25.0	24.0	14.5	5.83	10.1	10.7 B	10.1 B	18
19	9.05B	13.2 B	15.8B	67.5	15.8	27.1	23.6	12.8	5.76	10.1	11.1 B	10.1 B	19
20	9.16B	13.4 B	17.7B	71.8	16.0	29.5	23.0	12.4	6.02	10.8	10.9 B	10.0 B	20
21	9.23B	13.3 B	20.8B	78.4	19.3	29.4	22.5	12.3	6.20	11.5	10.2 B	9.72B	21
22	9.04B	13.3 B	23.5B	81.2	23.6	27.7	22.4	12.3	6.19	11.8	11.0 B	9.48B	22
23	8.97B	13.4 B	24.3B	85.9	25.0	25.7	22.4	12.6	6.19	11.3	11.2 B	9.40B	23
24	8.89B	13.4 B	24.5B	92.9	24.9	26.0	21.8	13.2	6.18	14.3	10.2 B	9.19B	24
25	8.93B	13.4 B	25.0B	94.4	25.0	24.5	21.6	13.4	6.11	14.5	9.97B	9.19B	25
26	8.96B	13.5 B	26.4B	91.9	26.9	23.0	21.3	12.9	5.95	14.4	7.82B	9.23B	26
27	8.97B	13.4 B	26.3B	86.9	27.3	22.0	21.7	12.4	5.79	14.2	8.72B	8.82B	27
28	8.90B	13.2 B	25.4B	73.6	27.3	21.2	22.0	10.5	5.79	13.9	10.7 B	8.78B	28
29	8.88B		29.4B	58.8	26.5	20.9	22.8	8.88	5.78	13.5	11.8 B	8.95B	29
30	8.84B		31.9B	46.9	25.6	21.4	23.0	8.36	5.96	13.2	11.7 B	9.18B	30
31	8.39B		37.3B		24.9		22.7	8.04		13.0		8.86B	31
TOTAL	281.41	349.93	670.5	2 100.3	684.7	718.2	725.3	494.28	191.58	322.76	350.81	318.35	TOTAL
MEAN	9.08	12.5	21.6	70.0	22.1	23.9	23.4	15.9	6.39	10.4	11.7	10.3	MEAN
MAX	9.55	13.5	37.3	94.4	35.4	29.5	26.4	22.5	7.77	14.5	15.4	11.6	MAX
MIN	8.39	8.35	13.5	39.6	15.8	20.9	20.7	8.04	5.76	6.56	7.82	8.78	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 19.7
MAXIMUM DAILY, 94.4 ON APR 25
MINIMUM DAILY, 5.76 ON SEP 19
MAXIMUM INSTANTANEOUS,
94.8 AT 04:33 CST ON APR 25

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 39 N
LONG 101 02 08 W
DRAINAGE AREA, 76 100 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	24 300	JUL	62 700
FEB	30 200	AUG	42 700
MAR	57 900	SEP	16 600
APR	181 000	OCT	27 900
MAY	59 200	NOV	30 300
JUN	62 100	DEC	27 500

TOTAL DISCHARGE, 622 000 dam³

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.10B	11.3 B	10.2 B	25.6B	11.2	16.0A	16.5	15.5	4.02	4.18	7.53	5.81B	1
2	5.17B	11.3 B	10.1 B	25.0B	10.2	16.1	16.4	15.6	4.04	4.27	7.52	6.00B	2
3	5.30B	11.4 B	9.81B	28.5B	9.57A	16.0A	16.9	16.0	4.35	4.14	7.53	6.97B	3
4	5.16B	11.4 B	9.66B	27.0	9.07	16.1	16.5	15.5	4.23	4.11	7.50	7.55B	4
5	5.03B	11.0 B	9.28B	26.9	8.67	16.4A	16.3	15.4	4.28	4.13	7.61	7.42B	5
6	5.39B	10.9 B	9.80B	31.0	8.37	16.2A	16.8	15.4	4.29	4.09	7.51B	7.50B	6
7	5.57B	11.0 B	9.56B	31.9	8.06	16.4	16.8	15.3	4.25	4.04	7.61B	7.38B	7
8	5.63B	11.1 B	9.67B	33.2	7.77	17.2	16.8	15.3	4.27	4.07	7.64B	7.24B	8
9	5.62B	11.1 B	9.70B	33.4	7.49	16.8	16.4	15.3	4.25	4.07	7.38B	7.29B	9
10	5.59B	11.0 B	9.73B	21.4	7.33A	16.6	16.2	15.3	4.22	4.06	6.33B	7.28B	10
11	5.86B	11.0 B	9.64B	17.1	7.33A	16.8	16.1	15.4	4.24	4.08	6.79B	7.38B	11
12	4.87B	10.9 B	9.77B	16.8	7.13	16.8	16.1	15.3	4.15	3.95	6.47B	7.29B	12
13	5.17B	10.8 B	10.3 B	15.2	7.18	17.2	16.0	15.4	4.22	4.10	6.97B	5.77B	13
14	5.70B	10.8 B	10.3 B	12.8	7.12A	16.8	16.0	15.4	4.18	4.05	6.00B	6.49B	14
15	5.35B	10.7 B	10.3 B	14.0	4.82	16.6	16.0	13.4	4.18	4.03	5.72B	7.69B	15
16	5.50B	10.6 B	10.2 B	14.9	3.84	16.6	15.9	9.80	4.12	4.02	5.52B	7.75B	16
17	5.79B	10.5 B	15.7 B	15.8	3.57	16.6	16.0	8.64	4.14	4.01	6.70B	7.60B	17
18	5.69B	10.4 B	18.1 B	17.0	4.70A	16.7	15.9	8.49	4.16	3.92	6.84B	7.45B	18
19	5.59B	10.3 B	17.9 B	18.5	6.79A	16.7	15.8	8.48	4.14	4.10	6.06B	7.04B	19
20	5.31B	10.4 B	17.8 B	19.1	7.53A	16.9	15.8	8.50	4.23	5.74	6.74B	7.45B	20
21	5.58B	10.5 B	18.2 B	30.5	7.55	16.7	15.8	8.46	4.20	7.19	5.49B	7.22B	21
22	5.60B	10.6 B	22.3 B	38.6	7.64A	16.5	15.9	9.24	4.15	7.26	3.67B	7.12B	22
23	5.67B	10.3 B	22.5 B	37.3	9.94A	16.5	15.9	8.82	4.16	7.37	4.46B	7.25B	23
24	5.84B	9.52B	25.7 B	37.4	12.5 A	16.5	15.8	8.65	4.18	7.30	5.72B	7.40B	24
25	5.81B	9.95B	25.6 B	36.8	14.2 A	16.5	15.7	6.59	4.15	7.38	7.06B	7.25B	25
26	5.89B	10.8 B	24.9 B	22.0	15.5 A	16.5	15.7	4.49	4.15	7.39	7.21B	7.06B	26
27	5.25B	10.0 B	25.2 B	16.1	15.8 A	16.4	16.2	4.23	4.10	7.28	7.72B	7.15B	27
28	5.39B	10.2 B	25.2 B	14.1	15.8 A	16.9	16.0	4.19	4.45	7.28	7.37B	7.21B	28
29	6.61B		22.6 B	12.7	16.1 A	16.6	15.7	4.10	4.61	7.37	7.11B	7.04B	29
30	6.56B		26.9 B	11.8	16.0 A	16.4	15.6	4.05	4.25	7.39	6.40B	6.91B	30
31	8.62B		26.3 B		15.8 A		15.6	4.07		7.49		6.97B	31
TOTAL	175.21	299.27	496.22	700.4	294.57	497.0	499.1	340.30	126.36	163.83	200.18	220.93	TOTAL
MEAN	5.65	10.7	16.0	23.3	9.50	16.6	16.1	11.0	4.21	5.28	6.67	7.13	MEAN
MAX	8.62	11.3	26.9	38.6	16.1	17.2	16.9	16.0	4.61	7.49	7.72	7.75	MAX
MIN	4.87	9.52	9.28	11.8	3.57	16.0	15.6	4.05	4.02	3.92	3.67	5.77	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 11.0
MAXIMUM DAILY, 38.6 ON APR 22
MINIMUM DAILY, 3.57 ON MAY 17
MAXIMUM INSTANTANEOUS,
38.9 AT 09:08 CST ON APR 22

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 48 35 N
LONG 101 26 10 W
DRAINAGE AREA, 19 300 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1969

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	15 100	JUL	43 100
FEB	25 900	AUG	29 400
MAR	42 900	SEP	10 900
APR	60 500	OCT	14 200
MAY	25 500	NOV	17 300
JUN	42 900	DEC	19 100

TOTAL DISCHARGE, 347 000 dam³

ATHAPAPUSKOW LAKE AT CRANBERRY PORTAGE - STATION NO. 05KG005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	291.688	291.716	291.745	291.739	291.810	291.942	291.956	291.887	291.786	291.692	291.668	291.684	1
2	291.688	291.715	291.738	291.736	291.809	291.937	291.949	291.890	291.786	291.654	291.693	291.676	2
3	291.689	291.720	291.732	291.746	291.814	291.942	291.924	291.881	291.792	291.700	291.700	291.676	3
4	291.688	291.725	291.730	291.743	291.820	291.940	291.945	291.869	291.784	291.705	291.689	291.675	4
5	291.686	291.724	291.730	291.741	291.825	291.945	291.948	291.865	291.778	291.697	291.699	291.682	5
6	291.693	291.729	291.731	291.738	291.827	291.946	291.943	291.862	291.769	291.694	291.699	291.678	6
7	291.691	291.724	291.732	291.743	291.834	291.942	291.946	291.863	291.768	291.687	291.688	291.677	7
8	291.695	291.725	291.730	291.739	291.844	291.947	291.953	291.861	291.759	291.683	291.696	291.681	8
9	291.694	291.735	291.742	291.740	291.847	291.947	291.951	291.844	291.755	291.673	291.700	291.681	9
10	291.698	291.727	291.742	291.739	291.855	291.944	291.951	291.841	291.751	291.681	291.691	291.678	10
11	291.700	291.729	291.745	291.739	291.859	291.958	291.944	291.834	291.744	291.705	291.683	291.678	11
12	291.693	291.737	291.744	291.739	291.863	291.966	291.944	291.833	291.720	291.688	291.673	291.682	12
13	291.693	291.738	291.745	291.737	291.865	291.967	291.939	291.836	291.719	291.699	291.671	291.677	13
14	291.694	291.734	291.744	291.737	291.871	291.970	291.944	291.829	291.737	291.700	291.681	291.680	14
15	291.694	291.734	291.743	291.740	291.878	291.973	291.935	291.817	291.735	291.700	291.678	291.681	15
16	291.697	291.735	291.747	291.738	291.886	291.971	291.927	291.812	291.724	291.696	291.673	291.682	16
17	291.695	291.733	291.744	291.739	291.888	291.968	291.920	291.806	291.726	291.693	291.675	291.678	17
18	291.690	291.739	291.742	291.739	291.892	291.970	291.919	291.795	291.728	291.674	291.674	291.679	18
19	291.696	291.736	291.743	291.745	291.898	291.970	291.915	291.800	291.717	291.672	291.670	291.681	19
20	291.693	291.743	291.740	291.739	291.906	291.968	291.905	291.799	291.714	291.681	291.666	291.679	20
21	291.706	291.747	291.743	291.745	291.912	291.960	291.900	291.797	291.715	291.675	291.674	291.676	21
22	291.705	291.743	291.746	291.746	291.918	291.953	291.900	291.794	291.715	291.666	291.693	291.678	22
23	291.705	291.745	291.742	291.753	291.921	291.946	291.897	291.805	291.716	291.681	291.691	291.682	23
24	291.708	291.744	291.745	291.752	291.924	291.946	291.895	291.799	291.720	291.677	291.684	291.682	24
25	291.706	291.740	291.743	291.755	291.929	291.946	291.886	291.790	291.717	291.679	291.682	291.683	25
26	291.719	291.748	291.741	291.768	291.933	291.935	291.889	291.783	291.714	291.684	291.678	291.678	26
27	291.716	291.741	291.742	291.774	291.932	291.932	291.889	291.785	291.704	291.685	291.679	291.683	27
28	291.711	291.744	291.740	291.784	291.935	291.930	291.915	291.785	291.697	291.663	291.682	291.689	28
29	291.716		291.739	291.804	291.936	291.943	291.902	291.783	291.690	291.680	291.680	291.686	29
30	291.717		291.744	291.809	291.941	291.952	291.899	291.778	291.694	291.661	291.686	291.685	30
31	291.717		291.743		291.945		291.887	291.786		291.660		291.684	31
MEAN	291.699	291.734	291.741	291.750	291.881	291.952	291.923	291.823	291.736	291.683	291.683	291.680	MEAN
MAX	291.719	291.748	291.747	291.809	291.945	291.973	291.956	291.890	291.792	291.705	291.700	291.689	MAX
MIN	291.686	291.715	291.730	291.736	291.809	291.930	291.886	291.778	291.690	291.654	291.666	291.675	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 291.774
MAXIMUM DAILY, 291.973 ON JUN 15
MINIMUM DAILY, 291.654 ON OCT 02
MAXIMUM INSTANTANEOUS,
292.002 AT 09:14 CST ON JUN 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 35 00 N
LONG 101 23 00 W

REGULATED

DRAINAGE AREA,
2 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

BACK LAKE NEAR OXFORD HOUSE - STATION NO. 04AA003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	187.022	187.045	187.031	187.068	187.295	187.280	187.245	187.130	187.078	186.971	186.995	1
2	---	187.023	187.049	187.029	187.068	187.278	187.304	187.231	187.141	187.072	186.968	186.995	2
3	---	187.023	187.046	187.029	187.071	187.289	187.279	187.235	187.134	187.038	186.979	187.000	3
4	---	187.025	187.040	187.025	187.078	187.302	187.264	187.243	187.139	187.050	186.985	186.994	4
5	---	187.028	187.039	187.025	187.077	187.306	187.260	187.229	187.141	187.059	186.993	186.995	5
6	---	187.027	187.040	187.024	187.074	187.311	187.272	187.227	187.143	187.062	186.995	187.001	6
7	---	187.025	187.038	187.027	187.075	187.320	187.268	187.222	187.141	187.053	186.999	187.002	7
8	---	187.022	187.036	187.023	187.079	187.322	187.266	187.218	187.183	187.045	187.001	187.010	8
9	---	187.021	187.037	187.019	187.092	187.323	187.263	187.194	187.140	187.037	187.002	187.009	9
10	---	187.019	187.032	187.024	187.110	187.323	187.272	187.190	187.128	187.033	186.981	187.003	10
11	---	187.019	187.036	187.022	187.105	187.325	187.281	187.188	187.113	187.039	186.973	187.004	11
12	---	187.016	187.030	187.015	187.107	187.340	187.282	187.185	187.101	187.050	186.978	187.002	12
13	---	187.016	187.032	187.015	187.110	187.339	187.293	187.185	187.099	187.032	186.977	187.002	13
14	---	187.016	187.035	187.025	187.123	187.344	187.294	187.198	187.106	187.029	186.979	187.005	14
15	---	187.020	187.037	187.025	187.128	187.351	187.285	187.177	187.116	187.032	186.986	187.008	15
16	---	187.022	187.035	187.020	187.136	187.357	187.276	187.170	187.110	187.038	186.985	187.015	16
17	---	187.022	187.030	187.023	187.142	187.344	187.280	187.152	187.106	187.032	186.980	187.011	17
18	187.015A	187.021	187.045	187.021	187.160	187.327	187.290	187.131	187.106	187.031	186.974	187.012	18
19	187.012	187.020	187.046	187.011	187.178	187.320	187.283	187.142	187.115	187.018	186.976	187.017	19
20	187.010	187.029	187.047	187.006	187.196	187.308	187.281	187.138	187.103	187.008	186.969	187.010	20
21	187.012	187.034	187.050	186.998	187.207	187.309	187.276	187.131	187.087	187.018	186.968	187.017	21
22	187.018	187.033	187.053	187.004	187.226	187.299	187.274	187.131	187.078	187.020	186.979	187.027	22
23	187.018	187.032	187.056	187.002	187.239	187.298	187.276	187.121	187.089	187.007	186.984	187.027	23
24	187.018	187.030	187.059	187.009	187.238	187.297	187.285	187.112	187.090	187.009	186.986	187.030	24
25	187.019	187.031	187.054	187.005	187.257	187.266	187.266	187.108	187.085	187.012	186.985	187.034	25
26	187.022	187.032	187.051	186.995	187.271	187.271	187.264	187.110	187.089	187.009	186.983	187.035	26
27	187.026	187.033	187.049	187.007	187.263	187.271	187.265	187.112	187.094	187.003	186.988	187.031	27
28	187.025	187.035	187.043	187.017	187.260	187.266	187.266	187.117	187.089	187.011	186.995	187.032	28
29	187.024		187.042	187.038	187.264	187.269	187.266	187.123	187.086	187.016	187.001	187.035	29
30	187.023		187.043	187.060	187.274	187.272	187.259	187.113	187.086	187.018	186.998	187.035	30
31	187.021		187.035		187.291		187.253	187.116		186.997		187.045	31
MEAN	---	187.025	187.043	187.019	187.160	187.308	187.275	187.167	187.112	187.031	186.984	187.014	MEAN
MAX	---	187.035	187.059	187.060	187.291	187.357	187.304	187.245	187.183	187.078	187.002	187.045	MAX
MIN	---	187.016	187.030	186.995	187.068	187.266	187.253	187.108	187.078	186.997	186.968	186.994	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 187.357 ON JUN 16
MINIMUM DAILY, 186.968 ON NOV 02
MAXIMUM INSTANTANEOUS,
187.365 AT 17:50 CST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 56 30 N
LONG 095 14 50 W

A - MANUAL GAUGE

NATURAL FLOW

DRAINAGE AREA,
9 010 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM
APPLY -158.967 m ADJUSTMENT TO CONVERT TO ASSUMED DATUM

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05OA007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	4.66 B	0.013	0	0.016	0	0	0	0	0B	1
2	0B	0B	0 B	5.38 B	0.011	0.008	0.012	0	0	0	0	0B	2
3	0B	0B	0 B	5.70 B	0.008	0.009	0.017	0	0	0	0	0B	3
4	0B	0B	0 B	4.86 B	0.006	0.001	0.017	0	0	0	0	0B	4
5	0B	0B	0 B	3.10 B	0.005	0.001	0.014	0	0	0	0B	0B	5
6	0B	0B	0 B	2.46	0.004	0.002	0.011	0	0	0	0B	0B	6
7	0B	0B	0 B	1.47	0.002	0.003	0.010	0	0	0	0B	0B	7
8	0B	0B	0 B	1.61	0.001	0.010	0.016	0	0	0	0B	0B	8
9	0B	0B	0 B	0.974	0	0.026	0.009	0	0	0	0B	0B	9
10	0B	0B	0 B	0.689	0	0.026	0.010	0	0	0	0B	0B	10
11	0B	0B	0 B	0.411	0	0.024	0.010	0	0	0	0B	0B	11
12	0B	0B	0.121B	0.315	0	0.017	0.010	0	0	0	0B	0B	12
13	0B	0B	0.357B	0.251	0	0.016	0.006	0	0	0	0B	0B	13
14	0B	0B	0.801B	0.191	0	0.016	0.001	0	0	0	0B	0B	14
15	0B	0B	0.660B	0.147	0	0.015	0.001	0	0	0	0B	0B	15
16	0B	0B	0.361B	0.112	0	0.013	0	0	0	0	0B	0B	16
17	0B	0B	0.118B	0.093	0.006	0.026	0	0	0	0	0B	0B	17
18	0B	0B	0.085B	0.088	0.001	0.032	0	0	0	0	0B	0B	18
19	0B	0B	0.071B	0.084	0	0.043	0	0	0	0	0B	0B	19
20	0B	0B	0.059B	0.082	0	0.076	0	0	0	0	0B	0B	20
21	0B	0B	0.048B	0.079	0	0.231	0	0	0	0	0B	0B	21
22	0B	0B	0.039B	0.075	0	0.337	0	0	0	0	0B	0B	22
23	0B	0B	0.031B	0.067	0	0.122	0	0	0	0	0B	0B	23
24	0B	0B	0.025B	0.057	0	0.058	0	0	0	0	0B	0B	24
25	0B	0B	0.021B	0.046	0	0.036	0	0	0	0	0B	0B	25
26	0B	0B	0.016B	0.038	0.001	0.025	0	0	0	0	0B	0B	26
27	0B	0B	0.014B	0.030	0.001	0.023	0	0.003	0	0	0B	0B	27
28	0B	0B	0.012B	0.025	0.001	0.022	0	0	0	0	0B	0B	28
29	0B		0.009B	0.021	0.001	0.016	0	0	0	0	0B	0B	29
30	0B		0.007B	0.017	0	0.015	0	0	0	0	0B	0B	30
31	0B		0.456B		0		0	0		0		0B	31
TOTAL	0	0	3.311	33.132	0.061	1.257	0.184	0.003	0	0	0	0	TOTA
MEAN	0	0	0.107	1.10	0.002	0.042	0.006	0	0	0	0	0	MEAN
MAX	0	0	0.801	5.70	0.013	0.337	0.018	0.003	0	0	0	0	MAX
MIN	0	0	0	0.017	0	0	0	0	0	0	0	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.104
MAXIMUM DAILY, 5.70B ON APR 03
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS,
7.66B AT 00:33 CST ON APR 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 16 N
LONG 099 19 22 W
DRAINAGE AREA, 1 530 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	15.9
FEB	0	AUG	0.259
MAR	286	SEP	0
APR	2 860	OCT	0
MAY	5.27	NOV	0
JUN	109	DEC	0

TOTAL DISCHARGE, 3 280 dam³

BALD HILL RESERVOIR NEAR MCCREARY - STATION NO. 05LJ803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	712.555	---	708.761	708.486	---	---	---	1
2	---	---	---	---	---	712.440	---	708.755	708.465	---	---	---	2
3	---	---	---	---	---	712.308	---	708.748	708.459	---	---	---	3
4	---	---	---	---	---	712.168	---	708.742	708.450	---	---	---	4
5	---	---	---	---	---	712.022	---	708.730	708.416	---	---	---	5
6	---	---	---	---	---	711.863	---	708.718	708.380	---	---	---	6
7	---	---	---	---	---	711.662	---	708.697	708.355	---	---	---	7
8	---	---	---	---	---	711.537	---	708.654	708.331	---	---	---	8
9	---	---	---	---	---	711.568A	---	708.569	708.310	---	---	---	9
10	---	---	---	---	---	---	---	708.502	708.294	---	---	---	10
11	---	---	---	---	---	---	---	708.532	708.279	---	---	---	11
12	---	---	---	---	---	---	---	708.660	708.258	---	---	---	12
13	---	---	---	---	---	---	---	708.654	708.255	---	---	---	13
14	---	---	---	---	---	---	---	708.608	708.253	---	---	---	14
15	---	---	---	---	---	---	---	708.578	708.252A	---	---	---	15
16	---	---	---	---	---	---	---	708.633	---	---	---	---	16
17	---	---	---	---	---	---	---	708.630	---	---	---	---	17
18	---	---	---	---	---	---	---	708.544	---	---	---	---	18
19	---	---	---	---	---	---	---	708.498	---	---	---	---	19
20	---	---	---	---	---	---	---	708.465	---	---	---	---	20
21	---	---	---	---	---	---	---	708.419	---	---	---	---	21
22	---	---	---	---	---	---	---	708.389	---	---	---	---	22
23	---	---	---	---	---	---	---	708.569	---	---	---	---	23
24	---	---	---	---	---	---	---	708.654	---	---	---	---	24
25	---	---	---	---	713.323A	---	708.782A	708.730	---	---	---	---	25
26	---	---	---	---	713.238	---	708.782	708.733	---	---	---	---	26
27	---	---	---	---	713.131	---	708.788	708.736	---	---	---	---	27
28	---	---	---	---	713.025	---	708.788	708.741	---	---	---	---	28
29	---		---	---	712.918	---	708.782	708.675	---	---	---	---	29
30	---		---	---	712.814	---	708.776	708.608	---	---	---	---	30
31	---		---		712.689		708.767	708.535		---		---	31
MEAN	---	---	---	---	---	---	---	708.627	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	708.761	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	708.389	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 42 16 N
LONG 099 40 00 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

A - MANUAL GAUGE

REGULATED SINCE 1961

DRAINAGE AREA,
2.59 km²

BARRINGTON RIVER ABOVE FIRST RAPIDS - STATION NO. 06EB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.70	5.37	4.71	4.00	4.42	11.1	13.1	12.5	9.04	6.18	6.45	6.90	1
2	5.68	5.37	4.65	3.97	4.34	11.1	13.7	12.6	8.99	6.02	6.45	6.88	2
3	5.63	5.36	4.62	4.01	4.36	11.1	13.8	12.4	8.98	6.30	6.47	6.87	3
4	5.60	5.35	4.56	3.97	4.31	11.3	14.1	12.0	8.77	6.83	6.43	6.84	4
5	5.57	5.31	4.57	3.90	4.32	11.3	14.1	12.0	8.59	6.96	6.27	6.91	5
6	5.57	5.30	4.53	3.82	4.38	11.4	14.0	11.8	8.42	6.91	6.28	6.84	6
7	5.55	5.29	4.51	3.80	4.40	11.1	13.8	11.6	8.33	6.90	6.26	6.81	7
8	5.51	5.29	4.48	3.74	4.33	11.0	13.5	11.3	8.18	6.91	6.05	6.79	8
9	5.51	5.31	4.56	3.69	4.73	10.9	13.2	11.0	7.93	6.91	6.08	6.89	9
10	5.51	5.30	4.69	3.65	5.09	10.7	13.0	10.9	7.83	6.91	6.07	6.81	10
11	5.53	5.28	4.63	3.61	5.50	10.7	12.8	10.7	7.70	7.06	6.06	6.83	11
12	5.49	5.26	4.61	3.58	5.92	11.5	12.7	10.5	7.49	7.19	6.08	6.81	12
13	5.41	5.20	4.61	3.53	6.39	12.5	12.3	10.6	7.30	6.94	6.04	6.79	13
14	5.39	5.18	4.60	3.46	6.80	13.5	12.2	10.6	7.41	7.03	5.85	6.76	14
15	5.35	5.11	4.58	3.45	7.32	14.1	11.9	10.3	7.37	7.08	5.85	6.74	15
16	5.34	5.06	4.58	3.44	8.25	14.3	12.0	10.2	7.22	7.08	5.86	6.81	16
17	5.31	5.01	4.54	3.41	9.32	14.3	12.2	9.84	7.03	7.08	5.81	6.81	17
18	5.26	5.01	4.53	3.35	10.2	14.2	12.1	9.66	7.21	7.03	5.80	6.83	18
19	5.25	4.97	4.50	3.34	11.2	13.9	11.9	9.49	7.10	6.86	5.80	6.76	19
20	5.22	4.93	4.42	3.30	12.2	13.7	11.7	9.32	6.77	6.79	5.79	6.68	20
21	5.25	4.95	4.40	3.34	13.1	13.5	11.7	9.14	6.76	6.79	5.83	6.63A	21
22	5.32	4.93	4.36	3.45	13.9	13.3	11.5	8.93	6.77	6.79	6.26	6.64E	22
23	5.37	4.91	4.30	3.73	14.4	13.1	11.3	8.97	6.68	6.79	6.49	6.63E	23
24	5.33	4.90	4.24	3.92	14.6	12.1	11.7	9.33	6.51	6.81	6.51	6.58E	24
25	5.32	4.87	4.16	3.98	14.6	12.9	11.7	9.17	6.54	6.64	6.55	6.57E	25
26	5.42	4.87	4.11	3.98	14.2	12.8	11.6	9.01	6.52	6.42	6.54	6.57E	26
27	5.47	4.79	4.09	4.00	13.6	12.7	11.5	8.82	6.37	6.42	6.55	6.56E	27
28	5.41	4.77	4.06	4.00	13.1	12.6	12.1	8.70	6.25	6.42	6.55	6.54E	28
29	5.39		4.03	4.31	12.6	12.7	12.3	8.62	6.23	6.43	6.56	6.50E	29
30	5.39		4.06	4.40	12.0	12.8	12.1	8.43	6.20	6.43	6.77	6.49E	30
31	5.41		4.07		11.5		12.4	8.76		6.44		6.46E	31
TOTAL	168.36	143.25	137.36	112.13	275.58	373.4	388.1	317.19	222.71	209.35	186.36	208.53	TOTAL
MEAN	5.43	5.12	4.43	3.74	8.89	12.4	12.5	10.2	7.42	6.75	6.21	6.73	MEAN
MAX	5.70	5.37	4.71	4.40	14.6	14.3	14.1	12.6	9.04	7.19	6.77	6.91	MAX
MIN	5.22	4.77	4.03	3.30	4.31	10.7	11.3	8.43	6.20	6.02	5.79	6.46	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.51
MAXIMUM DAILY, 14.6 ON MAY 24
MINIMUM DAILY, 3.30 ON APR 20
MAXIMUM INSTANTANEOUS,
14.6 AT 20:27 CST ON MAY 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 45 50 N
LONG 099 58 25 W
DRAINAGE AREA, 1 770 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	14 500	JUL	33 500
FEB	12 400	AUG	27 400
MAR	11 900	SEP	19 200
APR	9 690	OCT	18 100
MAY	23 800	NOV	16 100
JUN	32 300	DEC	18 000

TOTAL DISCHARGE, 237 000 dam³

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.02 B	0.155	0.039	0.006	0	0	0	---	---	1
2	---	---	0 B	4.26 B	0.142	0.053	0.004	0	0	0	---	---	2
3	---	---	0 B	3.55 B	0.134	0.044	0.008	0	0	0	---	---	3
4	---	---	0 B	2.07 B	0.189	0.041	0.008	0	0	0	---	---	4
5	---	---	0 B	2.20 B	0.248	0.056	0.007	0	0	0	---	---	5
6	---	---	0 B	1.46 B	0.323	0.044	0.008	0	0	0	---	---	6
7	---	---	0 B	0.827B	0.724	0.038	0.011	0	0	0	---	---	7
8	---	---	0 B	0.353B	0.440	0.470	0.025	0	0	0	---	---	8
9	---	---	0.001B	0.293B	0.189	1.42	0.023	0	0	0	---	---	9
10	---	---	0.003B	0.204B	0.140	3.79	0.017	0	0	0	---	---	10
11	---	---	0.017B	0.141B	0.126	2.26	0.014	0	0	0	---	---	11
12	---	---	0.072B	0.126B	0.101	1.49	0.011	0	0	0	---	---	12
13	---	---	0.300B	0.124B	0.084	1.10	0.007	0	0	0	---	---	13
14	---	---	1.45 B	0.101E	0.067	0.659	0.025	0	0	0	---	---	14
15	---	---	0.450B	0.086E	0.061	0.451	0.066	0	0	0	---	---	15
16	---	---	0.626B	0.069E	0.120	0.336	0.051	0	0	0	---	---	16
17	---	---	1.12 B	0.080A	0.412	0.223	0.034	0	0	0	---	---	17
18	---	---	2.01 B	0.055	1.57	0.188	0.021	0	0	0	---	---	18
19	---	---	1.83 B	0.058	1.95	0.414	0.013	0	0	0	---	---	19
20	---	---	1.41 B	0.042	1.44	0.913	0.008	0	0	0	---	---	20
21	---	---	1.21 B	0.041	1.05	0.084	0.006	0	0	0	---	---	21
22	---	---	0.948B	0.068	0.853	0.050	0.004	0	0	0	---	---	22
23	---	---	0.800B	0.126	0.707	0.033	0.002	0	0	0	---	---	23
24	---	---	0.726B	0.164	0.508	0.022	0.001	0	0	0	---	---	24
25	---	---	0.715B	0.206	0.355	0.017	0	0	0	0	---	---	25
26	---	---	0.697B	0.259	0.231	0.016	0	0	0	0	---	---	26
27	---	---	0.721B	0.188	0.176	0.014	0	0	0	0	---	---	27
28	---	---	0.936B	0.301	0.117	0.013	0	0	0	0	---	---	28
29	---	---	3.34 B	0.552	0.077	0.012	0	0	0	0	---	---	29
30	---		5.91 B	0.269	0.053	0.008	0	0	0	0	---	---	30
31	---		6.30 B		0.043		0	0		0		---	31
TOTAL	---	---	31.592	23.295	12.787	14.298	0.380	0	0	0	---	---	TOTAL
MEAN	---	---	1.02	0.777	0.413	0.477	0.012	0	0	0	---	---	MEAN
MAX	---	---	6.30	5.02	1.95	3.79	0.066	0	0	0	---	---	MAX
MIN	---	---	0	0.041	0.043	0.008	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.336
MAXIMUM DAILY, 6.30B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
8.33B AT 00:39 CST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 04 00 N
LONG 098 37 40 W
DRAINAGE AREA, 289 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	32.8
FEB	---	AUG	0
MAR	2 730	SEP	0
APR	2 010	OCT	0
MAY	1 100	NOV	---
JUN	1 240	DEC	---

TOTAL DISCHARGE, 7 110 dam³

BEAVER LAKE NEAR PINE RIVER - STATION NO. 05LG801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	700.997	700.955	700.891	700.842	---	---
2	---	---	---	---	---	---	700.994	700.949	700.888	700.845	---	---
3	---	---	---	---	---	---	700.997	700.945	700.888	700.842	---	---
4	---	---	---	---	---	---	701.003	700.939	700.888	700.839	---	---
5	---	---	---	---	---	---	701.003	700.933	700.885	700.842	---	---
6	---	---	---	---	---	701.195A	701.003	700.930	700.882	700.842	---	---
7	---	---	---	---	701.677A	701.198	701.010	700.921	700.882	700.845	---	---
8	---	---	---	---	---	701.211	701.013	700.918	700.878	700.851	---	---
9	---	---	---	---	---	701.220	701.013	700.909	700.878	700.863	---	---
10	---	---	---	---	---	701.229	701.013	700.906	700.875	700.869	---	---
11	---	---	---	---	701.890A	701.241	701.025	700.903	700.872	700.872	---	---
12	---	---	---	---	---	701.244	701.025	700.900	700.869	700.882	---	---
13	---	701.150A	---	---	---	701.256	701.019	700.894	700.866	700.891	---	---
14	---	---	---	---	701.930A	701.232	701.010	700.891	700.869	700.894A	---	---
15	---	---	---	---	---	701.156	701.003	700.888	700.863	---	---	---
16	---	---	---	---	---	701.113	701.000	700.888	700.857	---	---	---
17	---	---	---	---	---	701.104	701.003	700.882	700.854	---	---	---
18	---	---	---	---	701.226A	701.110	701.016	700.875	700.851	---	---	---
19	---	---	---	---	---	701.046	701.013	700.872	700.848	---	---	---
20	---	---	---	---	---	700.909	701.010	700.872	700.851	---	---	---
21	---	---	---	---	---	700.918	701.006	700.869	700.854	---	---	---
22	---	---	---	---	---	700.936	701.003	700.875	700.851	---	---	---
23	---	---	---	---	701.637A	700.945	701.000	700.878	700.851	---	---	---
24	---	---	---	---	---	700.958	700.997	700.882	700.848	---	---	---
25	---	---	---	---	---	700.964	700.994	700.900	700.848	---	---	---
26	---	---	---	---	---	700.976	700.994	700.897	700.845	---	---	---
27	---	---	---	---	---	700.967	700.988	700.906	700.842	---	---	---
28	---	---	---	---	---	701.000	700.988	700.906	700.842	---	---	---
29	---		---	---	---	701.000	700.979	700.903	700.839	---	---	---
30	---		---	---	---	701.000	700.973	700.903	700.839	---	---	---
31	---		---	---	701.073A		700.961	700.900		---		
MEAN	---	---	---	---	---	---	701.002	700.903	700.863	---	---	---
MAX	---	---	---	---	---	---	701.025	700.955	700.891	---	---	---
MIN	---	---	---	---	---	---	700.961	700.869	700.839	---	---	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 48 02 N
LONG 100 50 09 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

A - MANUAL GAUGE

REGULATED SINCE 1955

DRAINAGE AREA,
8.83 km²

BELL LAKE NEAR NOVRA - STATION NO. 05LF801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	681.281E	680.487E	680.364E	680.279E	680.179E	---	---
2	---	---	---	---	---	681.234E	680.498E	680.350E	680.276E	680.176E	---	---
3	---	---	---	---	---	681.188E	680.509E	680.351E	680.273E	680.172E	---	---
4	---	---	---	---	---	681.142E	680.519E	680.345E	680.269E	680.169E	---	---
5	---	---	---	---	---	681.095E	680.530	680.339E	680.266E	680.165	---	---
6	---	---	---	---	---	681.049	680.543E	680.333E	680.263E	---	---	---
7	---	---	---	---	681.515	681.019E	680.557E	680.326E	680.260	---	---	---
8	---	---	---	---	---	680.990E	680.570E	680.320	680.254E	---	---	---
9	---	---	---	---	---	680.960E	680.583E	680.316E	680.249E	---	---	---
10	---	---	---	---	---	680.931E	680.597E	680.311E	680.243E	---	---	---
11	---	---	---	---	---	680.901E	680.610	680.307E	680.237E	---	---	---
12	---	---	---	---	---	680.871E	680.600E	680.302E	680.231E	---	---	---
13	---	---	---	---	---	680.842	680.590E	680.298E	680.226E	---	---	---
14	---	---	---	---	---	680.801E	680.580E	680.294E	680.220	---	---	---
15	---	---	---	---	---	680.759E	680.570E	680.289E	680.218E	---	---	---
16	---	---	---	---	---	680.718E	680.560E	680.285	680.217E	---	---	---
17	---	---	---	---	---	680.677E	680.550E	680.285E	680.215E	---	---	---
18	---	---	---	---	---	680.636E	680.540	680.285E	680.213E	---	---	---
19	---	---	---	---	---	680.594E	680.524E	680.285E	680.212E	---	---	---
20	---	680.304	---	---	---	680.553	680.509E	680.285E	680.210	---	---	---
21	---	---	---	---	---	680.533E	680.493E	680.285E	680.208E	---	---	---
22	---	---	---	---	---	680.513E	680.477E	680.285E	680.205E	---	---	---
23	---	---	---	---	---	680.493E	680.461E	680.285	680.203E	---	---	---
24	---	---	---	---	---	680.474E	680.446E	680.285E	680.200E	---	---	---
25	---	---	---	---	681.558	680.454E	680.430	680.285E	680.198E	---	---	---
26	---	---	---	---	681.519E	680.434	680.420E	680.285E	680.195E	---	---	---
27	---	---	---	---	681.481E	680.445E	680.410E	680.285E	680.193E	---	---	---
28	---	---	---	---	681.442E	680.455E	680.400E	680.285E	680.190	---	---	---
29	---		---	---	681.404E	680.466E	680.390E	680.285E	680.186E	---	---	---
30	---		---	---	681.365E	680.477E	680.380E	680.285	680.183E	---	---	---
31	---		---	---	681.327		680.370	680.282E		---		
MEAN	---	---	---	---	---	680.766	680.507	680.304	680.226	---	---	---
MAX	---	---	---	---	---	681.281	680.610	680.364	680.279	---	---	---
MIN	---	---	---	---	---	680.434	680.370	680.282	680.183	---	---	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 32 30 N
LONG 101 13 00 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "BELL LAKE NEAR OUTLET"

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1

DRAINAGE AREA,
59.1 km²

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.170B	0.285B	2.81	3.59	2.05	0.560A	0.293	0.266	---	---	1
2	---	---	0.170B	0.225B	2.69	3.43	1.70	0.592	0.299	0.213	---	---	2
3	---	---	0.170B	0.195B	2.76	3.35	2.02	0.624	0.308	0.192	---	---	3
4	---	---	0.170B	0.185B	3.54	3.21	4.71	0.505	0.283	0.183	---	---	4
5	---	---	0.170B	0.185B	5.10	3.21	4.60	0.421	0.284	0.174	---	---	5
6	---	---	0.170B	0.185B	6.35	3.16	3.91	0.378	0.288	0.173	---	---	6
7	---	---	0.170B	0.185B	6.26	3.89	3.94	0.324	0.282	0.193	---	---	7
8	---	---	0.170B	0.185B	5.55	3.75	3.13	0.297	0.293	0.194	---	---	8
9	---	---	0.175B	0.185B	5.90	3.49	2.58	0.281	0.280	0.189	---	---	9
10	---	---	0.180B	0.185B	6.74	3.34	2.36	0.280	0.272	0.219	---	---	10
11	---	---	0.180B	0.185B	8.37	3.29	1.97	0.294	0.279	0.220	---	---	11
12	---	---	0.180B	0.200B	8.65	3.11	1.62	0.268	0.272	0.227	---	---	12
13	---	---	0.180B	0.210B	7.78	2.86	1.51	0.264	0.280	0.230	---	---	13
14	---	---	0.180B	0.185B	7.14	2.79	1.36	0.273	0.288	0.229	---	---	14
15	---	---	0.180B	0.185B	7.21	2.84	1.28	0.258	0.291	0.224	---	---	15
16	---	---	0.180B	0.210B	12.6	2.74	1.13	0.261	0.286	0.240	---	---	16
17	---	---	0.180B	0.200B	12.0	2.70	1.03	0.284	0.285	0.230	---	---	17
18	---	---	0.180B	1.05 B	9.37	2.69	0.983	0.259	0.278	0.317	---	---	18
19	---	---	0.180B	3.84 B	8.51	2.67	0.976	0.248	0.298	0.375	---	---	19
20	---	---	0.180B	5.70 B	8.73	2.69A	0.944	0.248	0.306	0.330	---	---	20
21	---	---	0.180B	12.0 B	7.70	2.73	0.907	0.257	0.386	0.265	---	---	21
22	---	---	0.180B	11.6 B	7.28	2.76	0.844	0.559	0.351	0.272	---	---	22
23	---	---	0.180B	10.0	6.67	2.79	0.785	0.447	0.347	0.277	---	---	23
24	---	---	0.180B	7.95	6.08	2.54	0.741	0.371	0.314	0.303	---	---	24
25	---	---	0.180B	5.73	5.50	2.27	0.714E	0.555	0.308	0.291	---	---	25
26	---	---	0.180B	3.89	5.14	2.05	0.697E	0.387	0.305	0.282	---	---	26
27	---	---	0.180B	3.49	4.70	2.11	0.664E	0.361	0.299	0.291	---	---	27
28	---	---	0.180B	2.78	4.29	2.18	0.689E	0.329	0.295	0.288	---	---	28
29	---	---	0.190B	2.74	4.05	2.24	0.655E	0.325	0.289	0.316	---	---	29
30	---		0.210B	2.79	3.89	2.33	0.625E	0.302	0.301	0.302	---	---	30
31	---		0.360B		3.73		0.603E	0.288		0.270A		---	31
TOTAL	---	---	5.715	76.935	197.09	86.80	51.727	11.120	8.940	7.775	---	---	TOTAL
MEAN	---	---	0.184	2.56	6.36	2.89	1.67	0.359	0.298	0.251	---	---	MEAN
MAX	---	---	0.360	12.0	12.6	3.89	4.71	0.624	0.386	0.375	---	---	MAX
MIN	---	---	0.170	0.185	2.69	2.05	0.603	0.248	0.272	0.173	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.82
MAXIMUM DAILY, 12.6 ON MAY 16
MINIMUM DAILY, 0.170B ON MAR 01
MAXIMUM INSTANTANEOUS,
16.1 AT 23:25 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 36 10 N
LONG 101 02 15 W
DRAINAGE AREA, 170 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1955

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 470
FEB	---	AUG	961
MAR	494	SEP	772
APR	6 650	OCT	672
MAY	17 000	NOV	---
JUN	7 500	DEC	---

TOTAL DISCHARGE, 38 500 dam³

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	15.3	14.0B	13.1B	14.2B	63.1	113	120	66.9	35.5	21.2	14.1	11.9	1
2	15.2	14.0B	12.7B	14.4B	60.3	115	118	65.1	34.9	21.0	13.9	11.7	2
3	15.2	14.1B	12.5B	14.5B	57.8	118	116	63.5	36.6	20.4	13.7	11.7	3
4	15.0	14.1B	12.5B	14.5B	55.6	121	114	62.5	35.9	20.0	13.6	11.6	4
5	14.9	14.0B	12.5B	14.5B	53.7	122	112	61.0	35.1	19.8	13.5	11.6	5
6	14.9	14.1B	12.5B	14.5B	52.3	125	110	59.6	34.1	19.4	13.3	11.4	6
7	15.0	14.1B	12.5B	14.6B	54.0	128	110	58.3	33.2	19.1	13.2	11.4	7
8	15.0	14.1B	12.4B	14.6B	55.9	130	108	56.6	32.7	18.8	13.2	11.4	8
9	15.0	14.0B	12.4B	14.5B	58.6	133	107	55.1	31.8	18.5	13.0	11.3	9
10	15.1	13.9B	12.4B	14.4B	60.5	135	106	53.8	31.3	18.2	12.9	11.2	10
11	15.1	13.9B	12.3B	14.4B	61.9	135	104	52.6	30.6	17.7	12.7	11.1	11
12	15.1	13.9B	12.4B	14.4B	62.6	137	102	51.9	29.9	17.6	12.6	11.1	12
13	15.1	13.8B	12.6B	14.4B	62.7	138	100	50.9	29.2	17.4	12.6	11.1	13
14	15.1	13.7B	12.7B	14.5B	62.3	138	98.5	50.4	28.5	17.2	12.6	11.1	14
15	15.0	13.7B	13.5B	14.6B	62.0	138	96.4	49.3	27.7	16.9	12.4	11.0	15
16	15.0	13.6B	14.2B	14.8B	61.8	138	94.6	48.2	27.1	16.8	12.3	11.0	16
17	14.9	13.5B	14.2B	14.9B	64.3	138	92.5	47.2	26.5	16.6	12.3	10.9 B	17
18	14.8	13.6B	14.2B	15.4B	66.9	137	90.5	45.9	25.6	16.4	12.1	10.8 B	18
19	14.8	13.6B	14.3B	16.6B	69.3	136	88.7	44.5	25.0	16.2	12.0	10.7 B	19
20	14.7	13.6B	14.3B	19.3B	71.8	134	86.7	43.7	24.6	15.9	11.9	10.5 B	20
21	14.8	13.6B	14.3B	24.1B	74.6	133	85.0	42.9	24.7	15.7	12.0	10.4 B	21
22	14.8	13.5B	14.3B	32.6B	78.0	132	83.1	42.2	24.7	15.7	12.3	10.3 B	22
23	14.7	13.2B	14.2B	44.0B	81.9	131	81.2	42.3	24.4	15.5	12.3	10.3 B	23
24	14.7	13.1B	14.2B	59.7	85.5	129	79.1	41.2	23.7	15.4	12.2	10.2 B	24
25	14.7	13.2B	14.2B	69.5	89.1	129	77.4	40.5	23.3	15.3	12.2	10.1 B	25
26	14.7	13.2B	14.1B	74.1	92.9	127	76.2	40.1	22.9	15.0	12.2	9.97B	26
27	14.6B	13.1B	14.1B	74.6	96.4	126	75.0	39.3	22.5	14.7	12.1	9.92B	27
28	14.3B	13.1B	14.0B	72.8	99.6	125	73.1	38.7	22.1	14.7	12.1	9.93B	28
29	14.2B		14.1B	69.9	103	124	71.7	38.0	21.8	14.5	12.1	9.84B	29
30	14.2B		14.1B	66.1	107	122	70.1	37.4	21.5	14.4	12.0	9.73B	30
31	14.1B		14.1B		110		68.8	36.4		14.2		9.64B	31
TOTAL	460.0	383.3	415.9	885.6	2 235.4	3 887	2 915.6	1 526.0	847.2	530.2	379.4	334.83	TOTAL
MEAN	14.8	13.7	13.4	29.5	72.1	130	94.1	49.2	28.2	17.1	12.6	10.8	MEAN
MAX	15.3	14.1	14.3	74.6	110	138	120	66.9	36.6	21.2	14.1	11.9	MAX
MIN	14.1	13.1	12.3	14.2	52.3	113	68.8	36.4	21.5	14.2	11.9	9.64	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 40.5
MAXIMUM DAILY, 138 ON JUN 13
MINIMUM DAILY, 9.64B ON DEC 31
MAXIMUM INSTANTANEOUS,
139 AT 19:50 CST ON JUN 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 12 10 N
LONG 098 06 10 W

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	39 700	JUL	252 000
FEB	33 100	AUG	137 000
MAR	35 900	SEP	73 200
APR	76 500	OCT	45 800
MAY	193 000	NOV	32 800
JUN	336 000	DEC	28 900

TOTAL DISCHARGE, 1 280 000 dam³

BIG GRASS RIVER ANGLE DITCH NEAR GLENELLA - STATION NO. 05LL026

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0 B	0.406B	1.33	0.571	0.001	0	0	0	---	---
2	---	---	0 B	3.11 B	1.30	1.03	0	0	0	0	---	---
3	---	---	0 B	1.97 B	1.26	0.796	0	0	0	0	---	---
4	---	---	0 B	1.27 B	1.28	0.527	0	0	0	0	---	---
5	---	---	0 B	0.960B	1.28	0.427	0	0	0	0	---	---
6	---	---	0 B	0.892B	1.21	0.359	0.001	0	0	0	---	---
7	---	---	0 B	0.876B	1.14	0.319	0.001	0	0	0	---	---
8	---	---	0 B	0.727B	1.10	0.368	0.014	0	0	0	---	---
9	---	---	0 B	0.451B	0.995	0.456	0.079	0	0	0	---	---
10	---	---	0 B	0.274B	0.862	0.493	0.216	0	0		---	---
11	---	---	0 B	0.180B	0.785	0.444	0.141	0	0	0	---	---
12	---	---	0 B	0.152B	0.737	0.390	0.071	0	0	0	---	---
13	---	---	0 B	0.368B	0.672	0.414	0.035	0	0	0	---	---
14	---	---	0 B	0.437B	0.597	0.316	0.024	0	0	0	---	---
15	---	---	0 B	0.469B	0.529	0.198	0.015	0	0		---	---
16	---	---	0 B	0.660B	2.32	0.154	0.010	0	0	0	---	---
17	---	---	0 B	0.545	9.43	0.126	0.029	0	0	0	---	---
18	---	---	0 B	0.486	6.05	0.103	0.022	0	0	0	---	---
19	---	---	0 B	0.623	3.63	0.090	0.010	0	0	0	---	---
20	---	---	0 B	1.44	2.53	0.087	0.007	0	0		---	---
21	---	---	0 B	2.82	2.02	0.136	0.010	0	0	0	---	---
22	---	---	0 B	2.90	1.91	0.422	0.006	0	0	0	---	---
23	---	---	0 B	2.82	1.81	0.254	0.008	0	0	0	---	---
24	---	---	0 B	2.76	1.44	0.136	0.004	0	0	0	---	---
25	---	---	0 B	2.70	1.09	0.080	0.005	0	0		---	---
26	---	---	0 B	3.11	0.828	0.056	0.008	0	0	0	---	---
27	---	---	0 B	2.24	0.632	0.037	0	0	0	0	---	---
28	---	---	0 B	1.26 A	0.476	0.030	0.010	0	0	0	---	---
29	---	---	0 B	1.55 A	0.357	0.017	0	0	0	0	---	---
30	---		0 B	1.54	0.287	0.006	0	0	0	0	---	---
31	---		0.007B		0.224		0	0		0		
TOTAL	---	---	0.007	39.996	50.111	8.842	0.727	0	0	0	---	---
MEAN	---	---	0	1.33	1.62	0.295	0.024	0	0	0	---	---
MAX	---	---	0.007	3.11	9.43	1.03	0.216	0	0	0	---	---
MIN	---	---	0	0.152	0.224	0.006	0	0	0		---	---

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.407
MAXIMUM DAILY, 9.43 ON MAY 17
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 11.2 AT 03:21 CST ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 33 37 N
LONG 099 09 23 W
DRAINAGE AREA, 480 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	62.8
FEB	---	AUG	0
MAR	0.605	SEP	0
APR	3 460	OCT	0
MAY	4 330	NOV	---
JUN	764	DEC	---

TOTAL DISCHARGE, 8 620 dam³

REMARKS - PUBLISHED AS GLENELLA DRAIN PRIOR TO 1986. PUBLISHED AS "ANGLE DRAIN NEAR GLENELLA IN 1987"

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0 B	5.95B	2.29	4.64	0.104	0	0	0	---	---
2	---	---	0 B	6.03B	2.16	16.0	0.097	0	0	0	---	---
3	---	---	0 B	6.91B	2.17	8.32	0.112	0	0	0	---	---
4	---	---	0 B	6.95B	2.11	3.09	0.122	0	0	0	---	---
5	---	---	0 B	2.62B	2.08	1.81	0.112	0	0	0	---	---
6	---	---	0 B	2.38	2.00	1.31	0.128	0	0	0	---	---
7	---	---	0 B	2.20	1.90	1.07	0.151	0	0	0	---	---
8	---	---	0 B	2.41	1.86	0.921	0.216	0	0	0	---	---
9	---	---	0 B	1.82	1.79	0.913	0.235	0	0	0	---	---
10	---	---	0 B	2.04	1.67	0.963	0.346	0	0		---	---
11	---	---	0 B	1.72	1.57	0.914	0.427	0	0	0	---	---
12	---	---	0 B	2.09	1.51	0.869	0.386	0	0	0	---	---
13	---	---	0 B	3.18	1.47	0.826	0.322	0	0	0	---	---
14	---	---	0 B	2.45	1.41	0.786	0.254	0	0	0	---	---
15	---	---	0 B	2.50	1.33	0.648	0.213	0	0		---	---
16	---	---	0 B	1.86	2.30	0.546	0.199	0	0	0	---	---
17	---	---	0 B	1.55	11.1	0.485	0.189	0	0	0	---	---
18	---	---	0 B	1.52	14.6	0.430	0.172	0	0	0	---	---
19	---	---	0 B	2.13	10.6	0.368	0.153	0	0	0	---	---
20	---	---	0 B	2.98	7.00	0.373	0.139	0	0		---	---
21	---	---	0 B	4.84	4.77	0.321	0.120	0	0	0	---	---
22	---	---	0 B	5.56	3.75	0.329	0.073	0	0	0	---	---
23	---	---	0 B	5.40	3.53	0.392	0.032	0	0	0	---	---
24	---	---	0 B	5.33	3.03	0.344	0.007	0	0	0	---	---
25	---	---	0 B	5.06	2.57	0.271	0	0	0		---	---
26	---	---	0 B	5.07	2.23	0.215	0	0	0	0	---	---
27	---	---	0 B	4.03	1.97	0.165	0	0	0	0	---	---
28	---	---	0 B	2.68	1.76	0.142	0	0	0	0	---	---
29	---	---	0.005B	4.34	1.58	0.121	0	0	0	0	---	---
30	---		0.007B	2.40	1.46	0.114	0	0	0	0	---	---
31	---		3.47 B		1.32		0	0		0		
TOTAL	---	---	3.482	104.96	100.89	47.696	4.312	0	0	0	---	---
MEAN	---	---	0.112	3.50	3.25	1.59	0.139	0	0	0	---	---
MAX	---	---	3.47	6.95	14.6	16.0	0.427	0	0	0	---	---
MIN	---	---	0	1.52	1.32	0.114	0	0	0		---	---

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.07
MAXIMUM DAILY, 16.0 ON JUN 02
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 20.7 AT 02:27 CST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 30 27 N
LONG 098 58 15 W
DRAINAGE AREA, 1 070 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	373
FEB	---	AUG	0
MAR	301	SEP	0
APR	9 070	OCT	0
MAY	8 720	NOV	---
JUN	4 120	DEC	---

TOTAL DISCHARGE, 22 600 dam

BIG ISLAND LAKE NEAR FLIN FLON - STATION NO. 05KG006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	293.411E	293.444	293.404	293.315	293.252	293.154	---	---	1
2	---	---	---	---	293.417A	293.439	293.406	293.315	293.249	293.151	---	---	2
3	---	---	---	---	293.419	293.430	293.409	293.310	293.246	293.156	---	---	3
4	---	---	---	---	293.425	293.422	293.413	293.303	293.240	293.159	---	---	4
5	---	---	---	---	293.435	293.422	293.407	293.299	293.236	293.159	---	---	5
6	---	---	---	---	293.455	293.418	293.404	293.296	293.229	293.152	---	---	6
7	---	---	---	---	293.473	293.411	293.404	293.295	293.225	293.150	---	---	7
8	---	---	---	---	293.478	293.407	293.409	293.289	293.219	293.148	---	---	8
9	---	---	---	---	293.481	293.403	293.411	293.283	293.214	293.143	---	---	9
10	---	---	---	---	293.485	293.397	293.411	293.280	293.211	293.147	---	---	10
11	---	---	---	---	293.486	293.411	293.407	293.274	293.207	293.161	---	---	11
12	---	---	---	---	293.486	293.418	293.403	293.269	293.204	293.163	---	---	12
13	---	---	---	---	293.487	293.421	293.398	293.271	293.202	293.167	---	---	13
14	---	---	293.327A	---	293.487	293.410	293.395	293.269	293.199	293.169	---	---	14
15	---	---	---	---	293.487	293.402	293.388	293.264	293.197	293.167	---	---	15
16	---	---	---	---	293.487	293.398	293.382	293.260	293.192	293.165	---	---	16
17	---	---	---	---	293.482	293.397	293.376	293.259A	293.188	293.163	---	---	17
18	---	---	---	293.293A	293.479	293.393	293.370	293.257E	293.186	293.161	---	---	18
19	---	---	---	---	293.476	293.391	293.367	293.256E	293.183	293.159	---	---	19
20	---	---	---	---	293.475	293.388	293.363	293.254E	293.185	293.162	---	---	20
21	---	---	---	---	293.472	293.389	293.357	293.252E	293.182	293.162	---	---	21
22	---	---	---	---	293.467	293.385	293.352	293.251E	293.179	293.162	---	---	22
23	---	---	---	---	293.466	293.374	293.348	293.249E	293.179	293.164	---	---	23
24	---	---	---	---	293.462	293.374	293.348	293.248E	293.177	293.164	---	---	24
25	---	---	---	---	293.459	293.372	293.340	293.246E	293.175	293.163	---	---	25
26	---	---	---	---	293.457	293.371	293.335	293.244E	293.171	293.167	---	---	26
27	---	---	---	---	293.457	293.368	293.332	293.243E	293.167	293.163	---	---	27
28	---	---	---	---	293.452	293.362	293.331	293.241A	293.164	293.160	---	---	28
29	---		---	---	293.447	293.382	293.326	293.240	293.157	293.160	---	---	29
30	---		---	---	293.444	293.397	293.317	293.240	293.155	293.162	---	---	30
31	---		---		293.439		293.315	293.249		293.161A		---	31
MEAN	---	---	---	---	293.462	293.400	293.375	293.268	293.199	293.160	---	---	MEAN
MAX	---	---	---	---	293.487	293.444	293.413	293.315	293.252	293.169	---	---	MAX
MIN	---	---	---	---	293.411	293.362	293.315	293.240	293.155	293.143	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 293.487 ON MAY 13
MINIMUM DAILY, 293.143 ON OCT 09
MAXIMUM INSTANTANEOUS,
293.490 AT 14:00 CST ON MAY 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 43 00 N
LONG 101 46 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
132 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "MANISTIKWAN LAKE NEAR FLIN FLON"

BIG WHITESHELL LAKE AT BIG WHITESHELL LAKE - STATION NO. 05PG801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	310.210	310.335	310.875	310.713	310.286	310.062	309.967E	---	1
2	---	---	---	---	310.218	310.336	310.875	310.698	310.274	310.057	309.967E	---	2
3	---	---	---	---	310.223	310.346	310.898	310.680	310.266	310.049	309.968E	---	3
4	---	---	---	---	310.230	310.341	310.931	310.664	310.255	310.045	309.968E	---	4
5	---	---	---	---	310.240	310.359	310.941	310.648	310.245	310.044	309.968E	---	5
6	---	---	310.015A	---	310.248	310.385	310.944	310.633	310.233	310.038	309.968E	---	6
7	---	---	---	---	310.250	310.405	310.966	310.620	310.221	310.034	309.969E	---	7
8	---	---	---	---	310.259	310.427	310.971	310.605	310.210	310.031	309.969E	---	8
9	---	---	---	---	310.259	310.450	310.970	310.586	310.199	310.030	309.969E	---	9
10	---	---	---	---	310.267	310.479	310.968	310.567	310.191	310.028	309.969E	---	10
11	---	---	---	---	310.272	310.509	310.959	310.550	310.186	310.023E	309.970E	---	11
12	---	---	---	---	310.279	310.535	310.950	310.537	310.179	310.018E	309.970E	---	12
13	---	---	---	---	310.284	310.578	310.947	310.525	310.166	310.013E	309.970E	---	13
14	---	---	---	---	310.285	310.604	310.937	310.513	310.153	310.008E	309.971E	---	14
15	---	---	---	---	310.292	310.626	310.924	310.490	310.145	310.003	309.971E	---	15
16	---	---	---	---	310.292	310.640	310.914	310.484	310.138	310.000E	309.971E	---	16
17	---	---	---	---	310.297	310.658	310.913	310.471	310.137	309.998E	309.971E	---	17
18	---	---	---	---	310.306	310.678	310.902	310.455	310.143	309.995E	309.972E	---	18
19	---	---	---	---	310.314	310.705	310.889	310.437	310.138	309.992E	309.972E	---	19
20	---	---	---	---	310.315	310.723	310.874	310.426	310.129	309.990E	309.972E	---	20
21	---	---	---	---	310.317	310.743	310.864	310.416	310.123	309.987E	309.973E	---	21
22	---	---	---	---	310.327	310.762	310.854	310.407	310.119	309.984E	309.973	---	22
23	---	---	---	---	310.333	310.783	310.843	310.397	310.115	309.982E	309.973E	---	23
24	---	---	---	---	310.335	310.800	310.825	310.383	310.109	309.979E	309.973E	---	24
25	---	---	---	310.148A	310.335	310.829	310.816	310.366	310.100	309.976E	309.973E	---	25
26	---	---	---	310.148	310.336	310.832	310.803	310.349	310.093	309.974E	309.973E	---	26
27	---	---	---	310.153	310.337	310.849	310.791	310.341	310.086	309.971E	309.973E	---	27
28	---	---	---	310.173	310.337	310.857	310.777	310.331	310.078	309.968E	309.973E	---	28
29	---		---	310.187	310.333	310.864	310.758	310.321	310.070	309.966	309.973	---	29
30	---		---	310.199	310.333	310.868	310.740	310.309	310.068	309.966E	309.973A	---	30
31	---		---		310.334		310.725	310.300		309.966E		---	31
MEAN	---	---	---	---	310.290	310.610	310.882	310.491	310.162	310.006	309.971	---	MEAN
MAX	---	---	---	---	310.337	310.868	310.971	310.713	310.286	310.062	309.973	---	MAX
MIN	---	---	---	---	310.210	310.335	310.725	310.300	310.068	309.966	309.967	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 310.971 ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 05 00 N
LONG 095 21 30 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
75.9 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "WHITESHELL LAKE AT CAMPGROUND"

BIRCH RIVER ABOVE BRACKEN DAM NEAR THE PAS - STATION NO. 05KH003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	259.852	259.896	259.912	259.728	259.794	259.753	259.725	259.819	---	---
2	---	---	259.839	259.896	259.916	259.701	259.784	259.760	259.729	259.779	---	---
3	---	---	259.836	259.917	259.926	259.732	259.767	259.757	259.745	259.841	---	---
4	---	---	259.833	259.928	259.941	259.713	259.769	259.746	259.748	259.846	---	---
5	---	---	259.831	259.929	259.943	259.714	259.796	259.741	259.747	259.823	---	---
6	---	---	259.832	259.932	259.899	259.732	259.800	259.732	259.736	259.828	---	---
7	---	---	259.837	259.938	259.871	259.707	259.811	259.726	259.748	259.821	---	---
8	---	---	259.843	259.943	259.911	259.719	259.842	259.725	259.746	259.820	---	---
9	---	---	259.855	259.946	259.936	259.715	259.839	259.715	259.744	259.817	---	---
10	---	---	259.849	259.943	259.923	259.696	259.830	259.706	259.740	259.822	---	---
11	---	---	259.853	259.947	259.901	259.709	259.831	259.701	259.740	259.840	---	---
12	---	---	259.857	259.949	259.900	259.704	259.838	259.701	259.714	259.820	---	---
13	---	---	259.854	259.944	259.889	259.642	259.842	259.714	259.739	259.819	---	---
14	---	---	259.853	259.947	259.881	259.651	259.853	259.715	259.755	259.831	---	---
15	---	---	259.851	259.951	259.867	259.645	259.859	259.704	259.758	259.827	---	---
16	---	---	259.849A	259.951	259.851	259.619	259.849	259.704	259.755	259.820	---	---
17	---	---	259.847E	259.963	259.855	259.612	259.850	259.704	259.771	259.819	---	---
18	---	---	259.844E	259.962	259.850	259.615	259.849	259.698	259.794	259.816	---	---
19	---	---	259.842E	260.003	259.838	259.613	259.851	259.703	259.773	259.807	---	---
20	---	---	259.839E	260.012	259.831	259.612	259.846	259.713	259.770	259.808	---	---
21	---	---	259.837E	260.024	259.828	259.613	259.846	259.718	259.775	259.810	---	---
22	---	---	259.835E	260.033	259.827	259.622	259.841	259.712	259.777	259.803	---	---
23	---	---	259.832E	260.023	259.800	259.635	259.831	259.726	259.801	259.824	---	---
24	---	---	259.830E	260.007	259.783	259.679	259.820	259.709	259.809	259.814	---	---
25	---	---	259.827E	259.992	259.789	259.725	259.799	259.711	259.810	259.814	---	---
26	---	---	259.825A	259.967	259.794	259.730	259.789	259.711	259.831	259.827	---	---
27	---	---	259.824	259.919	259.774	259.725	259.785	259.726	259.806	259.838	---	---
28	---	---	259.828	259.918	259.739	259.741	259.806	259.731	259.798	259.814	---	---
29	---		259.834	259.917	259.743	259.756	259.791	259.736	259.800	259.840	---	---
30	---		259.856	259.911	259.752	259.773	259.792	259.728	259.809	259.822	---	---
31	---		259.889		259.753		259.774	259.738		259.818		---
MEAN	---	---	259.842	259.954	259.853	259.686	259.819	259.722	259.766	259.821	---	---
MAX	---	---	259.869	260.033	259.943	259.773	259.859	259.760	259.831	259.846	---	---
MIN	---	---	259.824	259.896	259.739	259.612	259.767	259.698	259.714	259.779	---	---

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 260.033 ON APR 22
MINIMUM DAILY, 259.612 ON JUN 17
MAXIMUM INSTANTANEOUS,
260.036 AT 11:22 CST ON APR 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 49 30 N
LONG 101 19 30 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
2 390 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

BIRCH RIVER BELOW BRACKEN DAM NEAR THE PAS - STATION NO. 05KH004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	258.240	258.714	258.744	258.698	259.924	259.599	257.816	256.986	---	---
2	---	---	258.273	258.714	258.656	258.748	259.938	259.550	257.830	256.980	---	---
3	---	---	258.315	258.721	258.625	258.798	259.952	259.493	257.759	257.025	---	---
4	---	---	258.377	258.724	258.641	258.791	259.984	259.446	257.674	256.900	---	---
5	---	---	258.431	258.756	258.658	258.794	260.010	259.389	257.611	256.948	---	---
6	---	---	258.454	258.817	258.653	258.814	260.043	259.316	257.588	257.078	---	---
7	---	---	258.479	258.895	258.654	258.830	260.063	259.227	257.605	257.093	---	---
8	---	---	258.513	258.979	258.656	258.848	260.095	259.131	257.599	257.031	---	---
9	---	---	258.557	259.053	258.627	258.856	260.147	259.062	257.616	256.937	---	---
10	---	---	258.577	259.135	258.649	258.864	260.210	258.993	257.580	256.859	---	---
11	---	---	258.604	259.236	258.682	258.885	260.256	258.914	257.512	256.803	---	---
12	---	---	258.636	259.345	258.722	258.897	260.302	258.810	257.500	256.752	---	---
13	---	---	258.630	259.474	258.744	258.992	260.330	258.731	257.558	256.904	---	---
14	---	---	258.609	259.631	258.720	259.219	260.145	258.694	257.566	257.012	---	---
15	---	---	258.603	259.796	258.671	259.359	260.348	258.673	257.530	257.098	---	---
16	---	---	258.615	259.875	258.617	259.427	260.358	258.614	257.544	257.170	---	---
17	---	---	258.633	259.966	258.579	259.447	260.374	258.524	257.616	257.185	---	---
18	---	---	258.647	260.109	258.547	259.466	260.375	258.425	257.614	257.206	---	---
19	---	---	258.666	260.310	258.535	259.489	260.375	258.323	257.573	257.303	---	---
20	---	---	258.709	260.482	258.567	259.514	260.378	258.233	257.531	257.382	---	---
21	---	---	258.743	260.651	258.641	259.541	260.369	258.186	257.481	257.390	---	---
22	---	---	258.748	260.787	258.680	259.587	260.338	258.161	257.423	257.435	---	---
23	---	---	258.734	260.574	258.661	259.639	260.301	258.136	257.301	257.438	---	---
24	---	---	258.737	259.870	258.634	259.699	260.238	258.068	257.157	257.339	---	---
25	---	---	258.754	259.401	258.631	259.760	260.170	258.018	257.070	257.301	---	---
26	---	---	258.779	259.173	258.632	259.801	260.090	257.973	257.008	257.319	---	---
27	---	---	258.788	259.039	258.619	259.824	260.020	257.913	256.926	257.343	---	---
28	---	---	258.778	258.950	258.611	259.839	259.939	257.931	256.904	257.355	---	---
29	---		258.749	258.884	258.631	259.867	259.869	257.764	256.937	257.346	---	---
30	---		258.725	258.826	258.631	259.897	259.771	257.753	257.007	257.259	---	---
31	---		258.725		258.664		259.668	257.798		257.237		---
MEAN	---	---	258.608	259.430	258.645	259.273	260.148	258.605	257.448	257.142	---	---
MAX	---	---	258.788	260.787	258.744	259.897	260.378	259.599	257.830	257.438	---	---
MIN	---	---	258.240	258.714	258.535	258.698	259.668	257.753	256.904	256.752	---	---

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 260.787 ON APR 22
MINIMUM DAILY, 256.752 ON OCT 12
MAXIMUM INSTANTANEOUS,
260.810 AT 20:32 CST ON APR 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 49 30 N
LONG 101 19 30 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
2 390 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

REMARKS - WATER LEVELS ARE AFFECTED BY HIGH STAGES ON THE SASKATCHEWAN RIVER

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.160B	0.878B	3.00	2.52 E	2.85	0.200	0.166	0.174	---	---	1
2	---	---	0.160B	0.463B	2.50	2.40 E	2.37	0.199	0.166	0.176	---	---	2
3	---	---	0.160B	0.407B	2.67	2.28 E	2.65	0.182	0.157	0.181	---	---	3
4	---	---	0.160B	0.369B	4.13	2.08 E	4.22	0.174	0.156	0.171	---	---	4
5	---	---	0.160B	0.350B	5.33	2.08 E	4.11	0.173	0.157	0.175	---	---	5
6	---	---	0.160B	0.347B	5.89	2.32 E	3.76	0.166	0.165	0.172	---	---	6
7	---	---	0.160B	0.339B	5.42	2.77 E	4.63	0.159	0.170	0.166	---	---	7
8	---	---	0.160B	0.332B	4.55	2.48 E	3.78	0.148	0.169	0.124	---	---	8
9	---	---	0.174B	0.324B	4.18	2.09 E	3.02	0.147	0.161	0.139	---	---	9
10	---	---	0.190B	0.320B	5.49	1.77 E	2.47	0.164	0.154	0.133	---	---	10
11	---	---	0.190B	0.316B	7.33	1.55 E	2.17	0.194	0.152	0.140	---	---	11
12	---	---	0.190B	0.364	6.98	1.40 E	1.83	0.166	0.150	0.136	---	---	12
13	---	---	0.190B	0.400	5.79	1.25 E	1.52	0.162	0.149	0.147	---	---	13
14	---	---	0.190B	0.387	4.68	1.12 E	1.24	0.167	0.147	0.151	---	---	14
15	---	---	0.190B	0.384	3.83	1.03 E	1.01	0.168	0.149	0.140	---	---	15
16	---	---	0.190B	0.402	5.53	0.938E	0.834	0.180	0.154	0.149	---	---	16
17	---	---	0.190B	0.367	6.74	0.848E	0.782	0.184	0.157	0.167	---	---	17
18	---	---	0.190B	0.564	5.28	0.769E	0.662	0.167	0.165	0.195	---	---	18
19	---	---	0.190B	2.86	4.56	0.697E	0.551	0.172	0.170	0.187	---	---	19
20	---	---	0.190B	4.58	5.05	0.636A	0.496	0.148	0.191	0.173	---	---	20
21	---	---	0.190B	5.80	4.70	0.646	0.456	0.144	0.202	0.185	---	---	21
22	---	---	0.190B	9.63	4.44	0.704	0.396	0.198	0.193	0.182	---	---	22
23	---	---	0.190B	15.9	4.06	0.920	0.336	0.193	0.190	0.167	---	---	23
24	---	---	0.190B	17.4	3.55	0.851	0.288	0.200	0.190	0.150	---	---	24
25	---	---	0.192B	13.5	3.30E	0.549	0.247	0.224	0.187	0.179	---	---	25
26	---	---	0.196B	9.61	3.03E	0.556	0.238	0.205	0.183	0.183	---	---	26
27	---	---	0.200B	6.91 A	2.77E	0.891	0.261	0.198	0.175	0.179	---	---	27
28	---	---	0.219B	4.84 E	2.60E	2.32	0.308	0.180	0.174	0.153	---	---	28
29	---	---	0.238B	3.66 A	2.52E	2.88	0.263	0.174	0.176	0.186	---	---	29
30	---		0.350B	3.57 A	2.32E	3.27	0.220	0.169	0.174	0.166	---	---	30
31	---		2.59 B		2.24E		0.199	0.171		0.196A		---	31
TOTAL	---	---	8.289	105.573	134.46	46.005	48.175	5.473	5.049	5.122	---	---	TOTAL
MEAN	---	---	0.267	3.52	4.34	1.53	1.55	0.177	0.168	0.165	---	---	MEAN
MAX	---	---	2.59	17.4	7.33	3.27	4.63	0.224	0.202	0.196	---	---	MAX
MIN	---	---	0.160	0.316	2.24	0.549	0.199	0.144	0.147	0.124	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.46
MAXIMUM DAILY, 17.4 ON APR 24
MINIMUM DAILY, 0.124 ON OCT 08
MAXIMUM INSTANTANEOUS,
18.2 AT 22:32 CST ON APR 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 22 25 N
LONG 101 05 00 W
DRAINAGE AREA, 136 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 160
FEB	---	AUG	473
MAR	716	SEP	436
APR	9 120	OCT	443
MAY	11 600	NOV	---
JUN	3 970	DEC	---

TOTAL DISCHARGE, 30 900 dam³

REMARKS - STAGE-DISCHARGE RELATIONSHIP AFFECTED BY BEAVER ACTIVITY

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.719	1.32	4.91	9.29	---	---	---	---	---	---	1
2	---	---	0.711	1.37	5.26	10.0	---	---	---	---	---	---	2
3	---	---	0.711	1.42	5.60	10.2	---	---	---	---	---	---	3
4	---	---	0.706	1.47	5.89	10.4	---	---	---	---	---	---	4
5	---	---	0.703	1.52	6.17	10.6	---	---	---	---	---	---	5
6	---	---	0.698	1.57	6.42	10.7	---	---	---	---	---	---	6
7	---	---	0.690	1.64	6.93	10.8	---	---	---	---	---	---	7
8	---	---	0.685	1.69	6.89	11.1	---	---	---	---	---	---	8
9	---	---	0.677	1.74	7.20	11.3	---	---	---	---	---	---	9
10	---	---	0.671	1.79	7.40	11.4	---	---	---	---	---	---	10
11	---	---	0.681	1.84	7.63	11.6	---	---	---	---	---	---	11
12	---	---	0.680	1.89	7.85	11.8	---	---	---	---	---	---	12
13	---	---	0.713	1.93	8.11	11.8	---	---	---	---	---	---	13
14	---	---	0.728	1.96	8.32	11.9	---	---	---	---	---	---	14
15	---	---	0.809	2.01	8.58	11.8	---	---	---	---	---	---	15
16	---	---	0.915	2.02	8.83	11.6	---	---	---	---	---	---	16
17	---	---	0.952	2.03	9.00	11.5	---	---	---	---	---	---	17
18	---	---	0.972	2.05	9.21	11.2	---	---	---	---	---	---	18
19	---	---	0.998	2.07	9.38	11.0	---	---	---	---	---	---	19
20	---	---	1.02	2.11	9.46	11.3	---	---	---	---	---	---	20
21	---	---	1.04	2.15	9.55	12.0	---	---	---	---	---	---	21
22	---	---	1.06	2.22	9.63	12.5	---	---	---	---	---	---	22
23	---	---	1.08	2.42	9.79	12.8	---	---	---	---	---	---	23
24	---	---	1.11	2.66	9.89	12.9	---	---	---	---	---	---	24
25	---	---	1.13	2.90	9.90	13.0	---	---	---	---	---	---	25
26	---	---	1.15	3.18	9.84	12.9	---	---	---	---	---	---	26
27	---	---	1.17	3.56	9.76	12.8	---	---	---	---	---	---	27
28	---	---	1.20	3.88	9.83	12.5	---	---	---	---	---	---	28
29	---	---	1.22	4.22	9.63	12.1	---	---	---	---	---	---	29
30	---		1.24	4.56	9.52	11.8	---	---	---	---	---	---	30
31	---		1.28		9.40		---	---		---		---	31
TOTAL	---	---	28.119	67.22	255.78	346.59	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.907	2.24	8.25	11.6	---	---	---	---	---	---	MEAN
MAX	---	---	1.28	4.56	9.90	13.0	---	---	---	---	---	---	MAX
MIN	---	---	0.671	1.32	4.91	9.29	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.72
MAXIMUM DAILY, 13.0 ON JUN 25
MINIMUM DAILY, 0.671 ON MAR 10
MAXIMUM INSTANTANEOUS,
13.7 AT 16:5[illegible] CST ON JUN 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 27 46 N
LONG 095 24 50 W
DRAINAGE AREA, 1 040 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	2 430	SEP	---
APR	5 810	OCT	---
MAY	22 100	NOV	---
JUN	29 900	DEC	---

TOTAL DISCHARGE, 60 200 dam³

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.008B	1.03 B	3.65	1.80	2.49	0.280	0.063	0.023	---	---	1
2	---	---	0.008B	0.675B	3.55	1.79	2.95	0.230	0.060	0.025	---	---	2
3	---	---	0.008B	0.897B	3.51	1.48	3.08	0.195	0.064	0.024	---	---	3
4	---	---	0.008B	4.18 B	3.45	1.35	3.41	0.169	0.059	0.020	---	---	4
5	---	---	0.008B	4.90 B	3.24	1.34	3.07	0.155	0.056	0.019	---	---	5
6	---	---	0.008B	2.59 B	3.03	1.30	3.20	0.138	0.051	0.019	---	---	6
7	---	---	0.008B	1.73 B	2.80	1.7	3.54	0.122	0.048	0.017	---	---	7
8	---	---	0.008B	2.31 B	2.58	1.48	4.36	0.105	0.037	0.016	---	---	8
9	---	---	0.008B	2.24 B	2.35	1.85	4.60	0.096	0.033	0.023	---	---	9
10	---	---	0.008B	2.14 B	2.20	2.05	4.42	0.088	0.031	0.025	---	---	10
11	---	---	0.012B	2.24 B	2.10	2.35	4.45	0.082	0.024	0.022	---	---	11
12	---	---	0.018B	2.10 B	2.00	2.01	4.26	0.079	0.024	0.021	---	---	12
13	---	---	0.030B	2.33 B	1.91	1.60	3.60	0.073	0.016	0.024	---	---	13
14	---	---	0.044B	2.88 B	1.80	1.32	2.81	0.069	0.015	0.023	---	---	14
15	---	---	0.080B	3.20 B	1.72	1.16	2.21	0.066	0.008	0.027	---	---	15
16	---	---	0.075B	3.53 B	2.19	1.04	1.84	0.062	0.007	0.027	---	---	16
17	---	---	0.065B	3.31 B	2.85	0.955	1.62	0.065	0.004	0.024	---	---	17
18	---	---	0.056B	4.59 B	3.31	1.04	1.30	0.069	0.002	0.030	---	---	18
19	---	---	0.052B	5.78	3.78	1.56	1.18	0.065	0.001	0.057	---	---	19
20	---	---	0.055B	7.41	4.44	1.71	1.31	0.066	0.009	0.091	---	---	20
21	---	---	0.063B	9.23 A	5.07	1.73	1.33	0.067	0.014	0.096	---	---	21
22	---	---	0.070B	10.8	5.15	2.16	1.11	0.074	0.014	0.095	---	---	22
23	---	---	0.080B	12.1	5.26	2.08	0.911	0.067	0.015	0.096	---	---	23
24	---	---	0.094B	12.9	5.37	1.66	0.743	0.057	0.015	0.096	---	---	24
25	---	---	0.092B	12.2	5.22	1.28	0.659	0.061	0.016	0.097	---	---	25
26	---	---	0.090B	10.8	4.81	1.00	0.535	0.060	0.015	0.096	---	---	26
27	---	---	0.089B	9.01 A	4.16	0.902	0.566	0.059	0.012	0.099	---	---	27
28	---	---	0.091B	7.69 A	3.46	1.85	0.507	0.063	0.018	0.108	---	---	28
29	---	---	0.089B	5.44 A	3.05	1.16	0.471	0.057	0.028	0.109	---	---	29
30	---		0.134B	4.12 A	2.47	1.46	0.423	0.053	0.025	0.110A	---	---	30
31	---		0.479B		2.11		0.333	0.056		0.110E		---	31
TOTAL	---	---	1.938	154.552	102.59	46.187	67.288	2.950	0.784	1.669	---	---	TOTAL
MEAN	---	---	0.063	5.15	3.31	1.54	2.17	0.095	0.026	0.054	---	---	MEAN
MAX	---	---	0.479	12.9	5.37	2.35	4.60	0.280	0.064	0.110	---	---	MAX
MIN	---	---	0.008	0.675	1.72	0.902	0.333	0.053	0.001	0.016	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.54
MAXIMUM DAILY, 12.9 ON APR 24
MINIMUM DAILY, 0.001 ON SEP 19
MAXIMUM INSTANTANEOUS,
12.9 AT 06:35 CST ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 31 50 N
LONG 100 57 00 W
DRAINAGE AREA, 1 120 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 810
FEB	---	AUG	255
MAR	167	SEP	67.7
APR	13 400	OCT	144
MAY	8 860	NOV	---
JUN	3 990	DEC	---

TOTAL DISCHARGE, 32 700 dam³

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.073B	0.073B	0.052B	1.01	8.49	7.03	7.71A	1.97	0.209	0.171	0.172	0.305	1
2	0.071B	0.071B	0.052B	1.23	8.42	8.55	7.02A	1.84	0.185	0.173	0.172	0.305	2
3	0.071B	0.072B	0.053B	1.45	8.29	12.7	7.71A	1.71	0.414	0.176	0.170	0.304	3
4	0.071B	0.071B	0.052B	1.47	8.39	14.6	9.00	1.58	0.850	0.175	0.170	0.266	4
5	0.071B	0.071B	0.051B	1.45	8.23	14.4	9.25	1.45	0.625	0.175	0.169	0.261	5
6	0.070B	0.069B	0.050B	1.37	8.53	14.0	8.74	1.36	0.500	0.176	0.169	0.261	6
7	0.068B	0.068B	0.049B	1.28	8.45	13.6	10.0	1.48	0.416	0.183	0.170	0.261	7
8	0.068B	0.068B	0.049B	1.16	9.48	13.8	10.6	1.24	0.360	0.186	0.171	0.261	8
9	0.068B	0.068B	0.049B	1.09	10.8	15.7	10.5	1.19	0.290	0.191	0.170	0.261	9
10	0.068B	0.068B	0.050B	0.974	10.9	16.1	9.49	1.06	0.231	0.197	0.168	0.260	10
11	0.078B	0.068B	0.053B	0.913	10.7	15.8	8.52	0.822	0.205	0.200	0.168	0.260	11
12	0.080B	0.066B	0.065B	0.890	10.1	18.3	7.70	0.738	0.191	0.203	0.167	0.259	12
13	0.080B	0.063B	0.104B	0.864	9.59	18.8	7.13	0.677	0.189	0.212	0.166	0.255	13
14	0.082B	0.060B	0.121B	0.853	9.40	16.8	6.62	0.683	0.188	0.213	0.165	0.252	14
15	0.096B	0.059B	0.177B	0.855	9.46	15.2	6.19	0.664	0.184	0.209	0.165	0.248	15
16	0.099B	0.058B	0.323B	0.847	9.75	14.1	5.52	0.704	0.164	0.199	0.164	0.243	16
17	0.097B	0.057B	0.433B	0.819	12.2	13.0	5.37	0.479	0.155	0.186	0.169	0.238	17
18	0.092B	0.055B	0.631B	0.847	13.5	11.9	5.22	0.389	0.148	0.182	0.177	0.235B	18
19	0.087B	0.055B	0.812	1.02	13.4	10.9	5.17A	0.350	0.143	0.178	0.177	0.241B	19
20	0.083B	0.055B	0.775	1.36	12.4	11.3	4.90E	0.369	0.144	0.162	0.177	0.237B	20
21	0.081B	0.054B	0.736	1.93	11.5	13.3	4.57E	0.282	0.167	0.155	0.176	0.233B	21
22	0.080B	0.054B	0.682	3.07	10.9	13.7	4.23E	0.203	0.185	0.156	0.222	0.230B	22
23	0.079B	0.054B	0.614	5.16	12.6	14.3	3.98E	0.188	0.215	0.160	0.260	0.227B	23
24	0.078B	0.053B	0.557	6.59	12.9	14.5	3.72E	0.191	0.221	0.163	0.303	0.224B	24
25	0.078B	0.054B	0.517	6.44	11.6	13.4	3.44E	0.237	0.204	0.163	0.308	0.221B	25
26	0.078B	0.053B	0.476	7.37	10.7	12.3 A	3.18E	0.253	0.192	0.164	0.307	0.206B	26
27	0.078B	0.053B	0.454	8.65	10.0	11.1 A	2.93E	0.253	0.183	0.165	0.307	0.203B	27
28	0.077B	0.053B	0.447	8.70	9.24	10.4 A	2.69E	0.242	0.173	0.168	0.306	0.195B	28
29	0.076B		0.514	8.67	8.60	9.30A	2.50E	0.220	0.171	0.169	0.306	0.189B	29
30	0.076B		0.628	8.61	7.96	8.48A	2.28E	0.218	0.170	0.171	0.306	0.177B	30
31	0.075B		0.802		7.40		2.10A	0.217		0.171		0.170B	31
TOTAL	2.429	1.723	10.428	86.942	313.88	397.36	187.98	23.259	7.672	5.552	6.197	7.488	TOTAL
MEAN	0.078	0.062	0.336	2.90	10.1	13.2	6.06	0.750	0.256	0.179	0.207	0.242	MEAN
MAX	0.099	0.073	0.812	8.70	13.5	18.8	10.6	1.97	0.850	0.213	0.308	0.305	MAX
MIN	0.068	0.053	0.049	0.819	7.40	7.03	2.10	0.188	0.143	0.155	0.164	0.170	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.88
MAXIMUM DAILY, 18.8 ON JUN 13
MINIMUM DAILY, 0.049B ON MAR 07
MAXIMUM INSTANTANEOUS,
19.4 AT 16:47 CST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 51 42 N
LONG 096 15 10 W
DRAINAGE AREA, 712 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	210	JUL	16 200
FEB	149	AUG	2 010
MAR	901	SEP	663
APR	7 510	OCT	490
MAY	27 100	NOV	535
JUN	34 300	DEC	647

TOTAL DISCHARGE, 90 700 dam³

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	14.2B	13.8B	13.5B	23.6B	184	177	130	99.5	38.2	19.7	12.0	8.07B	1
2	14.1B	13.6B	13.5B	25.0B	176	172	128	98.0	36.8	19.3	12.0	8.00B	2
3	14.2B	13.6B	13.4B	25.8B	173	169	126	96.8	36.2	19.0	11.9	7.92B	3
4	14.1B	13.7B	13.3B	26.6B	169	166	124	94.4	35.5	20.2	11.5	7.76B	4
5	13.9B	13.9B	13.3B	27.3B	164	166	124	91.6	34.5	18.9	11.1	7.60B	5
6	13.5B	13.9B	13.1B	27.7B	161	167	122	88.8	33.8	18.6	11.2	7.51B	6
7	13.5B	14.1B	13.1B	27.7B	157	168	123	86.4	32.8	18.3	11.2	7.36B	7
8	13.5B	14.3B	13.0B	27.6B	161	169	125	83.7	31.9	17.9	11.2	7.31B	8
9	13.6B	14.3B	13.0B	27.3B	174	170	126	79.7	30.7	17.5	11.1	7.30B	9
10	13.7B	14.5B	13.1B	27.2B	182	170	126	76.9	29.7	17.4	10.9	7.29B	10
11	13.8B	14.4B	13.3B	27.1B	185	169	125	73.8	29.0	16.8	10.5 B	7.28B	11
12	13.9B	14.3B	13.5B	26.9B	184	173	124	71.6	28.1	16.5	10.1 B	7.08B	12
13	14.3B	14.0B	14.0B	27.2B	180	177	122	69.3	27.3	16.1	9.88B	7.05B	13
14	14.4B	14.0B	14.5B	28.3B	176	177	121	67.5	26.4	15.9	9.85B	7.02B	14
15	14.6B	13.6B	16.2B	29.5B	173	176	119	65.1	26.0	15.6	9.68B	6.99B	15
16	14.7B	13.4B	19.4B	31.2B	172	172	117	62.9	25.1	15.6	9.48B	6.97B	16
17	14.4B	13.2B	23.2B	32.9B	189	168	116	60.7	24.5	15.2	9.29B	6.94B	17
18	14.3B	13.0B	25.5B	34.8B	203	164	116	58.5	24.0	14.8	9.22B	6.92B	18
19	14.1B	12.9B	26.2B	41.9B	206	159	115	56.3	23.4	14.6	9.06B	6.90B	19
20	13.9B	13.3B	26.1B	77.5B	207	154	114	54.3	23.0	14.3	8.76B	6.80B	20
21	13.9B	13.5B	25.7B	106 B	207	152	114	52.6	23.7	14.0	8.84B	6.47B	21
22	13.9B	13.6B	25.0B	130 B	206	151	113	50.7	23.1	13.9	9.01B	6.40B	22
23	13.9B	13.8B	24.3B	150 B	207	147	112	49.9	22.6A	13.8	8.82B	6.40B	23
24	14.1B	14.0B	23.8B	174	205	143	111	47.9	22.3A	13.5	8.63B	6.40B	24
25	14.1B	13.9B	23.5B	194	203	139	110	46.8	21.9A	13.4	8.58B	6.39B	25
26	14.1B	13.9B	23.0B	222	203	136	109	45.1	21.6A	13.2	8.55B	6.40B	26
27	14.4B	13.7B	22.6B	230	200	134	108	44.2	21.1	13.5	8.54B	6.40B	27
28	14.0B	13.5B	22.3B	220	196	132	106	43.7	20.6	12.9	8.51B	6.41B	28
29	13.9B		22.0B	205	191	130	105	42.7	20.1	12.8	8.38B	6.41B	29
30	13.8B		21.9B	193	186	130	103	41.0	19.8	12.5	8.24B	6.41B	30
31	13.8B		22.4B		182		101	39.4		12.2		6.41B	31
TOTAL	434.6	385.7	580.7	2 447.1	5 764	4 776	3 635	2 039.3	813.6	487.9	296.02	216.57	TOTAL
MEAN	14.0	13.8	18.7	81.6	186	159	117	65.8	27.1	15.7	9.87	6.99	MEAN
MAX	14.7	14.5	26.2	230	207	177	130	99.5	38.2	20.2	12.0	8.07	MAX
MIN	13.5	12.9	13.0	23.6	157	130	101	39.4	19.8	12.2	8.24	6.39	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 59.9
MAXIMUM DAILY, 230 ON APR 27
MINIMUM DAILY, 6.39B ON DEC 25
MAXIMUM INSTANTANEOUS,
232 AT 07:47 CST ON APR 27

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 42 52 N
LONG 096 36 44 W
DRAINAGE AREA, 9 090 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	37 500	JUL	314 000
FEB	33 300	AUG	176 000
MAR	50 200	SEP	70 300
APR	211 000	OCT	42 200
MAY	498 000	NOV	25 600
JUN	413 000	DEC	18 700

TOTAL DISCHARGE, 1 890 000 dam³

BOGGY CREEK ABOVE LAKE IRWIN - STATION NO. 05LL013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.211B	1.46 B	0.610	0.135	0.096	0.054	0.066	0.051E	---	---	1
2	---	---	0.210B	2.01 B	0.546	0.149	0.095	0.055	0.065	0.051E	---	---	2
3	---	---	0.209B	1.80 B	0.442	0.153	0.092	0.058	0.067	0.051E	---	---	3
4	---	---	0.207B	1.79 B	0.409	0.156A	0.089	0.059	0.068	0.052E	---	---	4
5	---	---	0.204B	2.14 B	0.325	0.146E	0.082	0.060	0.067	0.052E	---	---	5
6	---	---	0.203B	2.68 B	0.331	0.147E	0.080	0.059	0.065	0.052E	---	---	6
7	---	---	0.202B	1.92 B	0.391	0.158E	0.086	0.059	0.063	0.052E	---	---	7
8	---	---	0.207B	1.34 B	0.379	0.167E	0.087	0.060	0.061	0.053E	---	---	8
9	---	---	0.213B	1.09 B	0.349	0.200E	0.083	0.062	0.061	0.053E	---	---	9
10	---	---	0.210B	1.06 B	0.327	0.333E	0.076	0.061	0.061	0.053E	---	---	10
11	---	---	0.201B	1.09 B	0.326	0.310E	0.079	0.063	0.058	0.053E	---	---	11
12	---	---	0.223B	1.42 B	0.322	0.250E	0.059	0.065	0.056	0.054E	---	---	12
13	---	---	0.416B	1.30 B	0.320	0.210E	0.052	0.066	0.055	0.054E	---	---	13
14	---	---	0.427B	1.19	0.326	0.200E	0.047	0.068	0.055	0.052E	---	---	14
15	---	---	0.378B	0.967	0.313	0.185E	0.045	0.070	0.055	0.050A	---	---	15
16	---	---	0.379B	0.790	0.297	0.220E	0.048	0.072A	0.053	0.051	---	---	16
17	---	---	0.391B	0.690	0.351	0.280E	0.053	0.074E	0.051	0.051	---	---	17
18	---	---	0.363B	0.697	0.337	0.265E	0.054	0.076E	0.053	0.053	---	---	18
19	---	---	0.336B	0.688	0.272	0.235E	0.052	0.078E	0.053	0.058	---	---	19
20	---	---	0.323B	0.624	0.229	0.200E	0.050	0.079A	0.053A	0.055	---	---	20
21	---	---	0.313B	0.593	0.212	0.160E	0.049	0.093	0.051E	0.053	---	---	21
22	---	---	0.303B	0.562	0.207	0.147E	0.048	0.081	0.049E	0.052	---	---	22
23	---	---	0.301B	0.498	0.195	0.136E	0.045	0.082	0.049E	0.054	---	---	23
24	---	---	0.306B	0.468	0.183	0.129E	0.045	0.081	0.049E	0.054	---	---	24
25	---	---	0.364B	0.542	0.177	0.123E	0.044	0.081	0.049E	0.054	---	---	25
26	---	---	0.498B	0.572	0.176	0.130A	0.046	0.080	0.049E	0.052	---	---	26
27	---	---	0.551B	0.535	0.169	0.123	0.049	0.079	0.049E	0.052	---	---	27
28	---	---	0.570B	0.539	0.176	0.122	0.049	0.077	0.050E	0.052	---	---	28
29	---	---	0.654B	0.592	0.162	0.115	0.050	0.073	0.050E	0.051	---	---	29
30	---		0.925B	0.690	0.129	0.103	0.051	0.070	0.050E	0.051	---	---	30
31	---		1.40 B		0.115		0.053	0.067		0.052		---	31
TOTAL	---	---	11.698	32.137	9.103	5.387	1.934	2.162	1.681	1.628	---	---	TOTAL
MEAN	---	---	0.377	1.07	0.294	0.180	0.062	0.070	0.056	0.053	---	---	MEAN
MAX	---	---	1.40	2.68	0.610	0.333	0.096	0.093	0.068	0.058	---	---	MAX
MIN	---	---	0.201	0.468	0.115	0.103	0.044	0.054	0.049	0.050	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.268
MAXIMUM DAILY, 2.68B ON APR 06
MINIMUM DAILY, 0.044 ON JUL 25
MAXIMUM INSTANTANEOUS,
3.42B AT 15:45 CST ON APR 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 10 54 N
LONG 099 23 55 W
DRAINAGE AREA, 515 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	167
FEB	---	AUG	187
MAR	1 010	SEP	145
APR	2 780	OCT	141
MAY	786	NOV	---
JUN	465	DEC	---

TOTAL DISCHARGE, 5 680 dam³

REMARKS - PRIOR 1988 PUBLISHED UNDER THE NAME "WHITEMUD RIVER ABOVE RESERVOIR"

BOGGY CREEK NEAR NEEPAWA - STATION NO. 05LL011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.169B	0.338B	0.553	0.260	0.197	0.185	0.168	0.128	---	---	1
2	---	---	0.166B	0.737B	0.496	0.249	0.194	0.183	0.168	0.121	---	---	2
3	---	---	0.153B	1.52 B	0.459	0.183	0.204	0.196	0.186	0.131	---	---	3
4	---	---	0.145B	1.94 B	0.397	0.153	0.202	0.222	0.171	0.138	---	---	4
5	---	---	0.142B	2.00 B	0.335	0.163	0.197	0.223	0.173	0.141	---	---	5
6	---	---	0.145B	2.09 B	0.324	0.169	0.238	0.196	0.171	0.139	---	---	6
7	---	---	0.148B	2.10 B	0.266	0.157	0.230	0.211	0.174	0.141	---	---	7
8	---	---	0.150B	2.25 B	0.209	0.255	0.301	0.181	0.176	0.147	---	---	8
9	---	---	0.166B	2.21 A	0.162	0.225	0.325	0.183	0.160	0.154	---	---	9
10	---	---	0.198B	1.92	0.155	0.232	0.307	0.178	0.173	0.160	---	---	10
11	---	---	0.308B	1.51	0.155	0.297	0.306	0.187	0.178	0.167	---	---	11
12	---	---	0.408B	1.38	0.138	0.268	0.313	0.183	0.179	0.164	---	---	12
13	---	---	0.229B	1.28	0.129	0.252	0.275	0.180	0.174	0.167	---	---	13
14	---	---	0.204B	1.20	0.125	0.298	0.237	0.192	0.175	0.168	---	---	14
15	---	---	0.193B	1.12	0.148	0.272	0.220	0.191	0.176	0.171	---	---	15
16	---	---	0.174B	0.991	0.688	0.261	0.226	0.194	0.181	0.169	---	---	16
17	---	---	0.172B	0.893	1.49	0.269	0.223	0.190	0.185	0.171	---	---	17
18	---	---	0.169B	0.769	1.92	0.383	0.216	0.193	0.188	0.168	---	---	18
19	---	---	0.166B	0.635	1.89	0.364	0.211	0.201	0.185	0.169	---	---	19
20	---	---	0.166B	0.384	1.46	0.383	0.207	0.192	0.188	0.167	---	---	20
21	---	---	0.166B	0.253	1.17	0.330	0.208	0.194	0.186	0.168	---	---	21
22	---	---	0.164B	0.238	1.01	0.297	0.206	0.196	0.190	0.166	---	---	22
23	---	---	0.166B	0.434	0.855	0.316	0.216	0.198	0.192	0.168	---	---	23
24	---	---	0.169B	0.704	0.799	0.343	0.177	0.191	0.188	0.167	---	---	24
25	---	---	0.172B	0.963	0.590	0.288	0.193	0.174	0.191	0.170	---	---	25
26	---	---	0.177B	1.10	0.461	0.255	0.205	0.172	0.205	0.171	---	---	26
27	---	---	0.190B	0.861	0.396	0.222	0.206	0.170	0.156	0.174	---	---	27
28	---	---	0.214B	0.806	0.334	0.202	0.199	0.168	0.138	0.167	---	---	28
29	---	---	0.248B	0.671	0.279	0.197	0.195	0.165	0.135	0.171	---	---	29
30	---		0.605B	0.575	0.304	0.193	0.191	0.167	0.125	0.178	---	---	30
31	---		0.897B		0.331		0.181	0.166		0.178		---	31
TOTAL	---	---	6.939	33.872	18.028	7.736	7.006	5.822	5.255	4.959	---	---	TOTAL
MEAN	---	---	0.224	1.13	0.582	0.258	0.226	0.188	0.175	0.160	---	---	MEAN
MAX	---	---	0.897	2.25	1.92	0.383	0.325	0.223	0.205	0.178	---	---	MAX
MIN	---	---	0.142	0.238	0.125	0.153	0.177	0.165	0.125	0.121	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.366
MAXIMUM DAILY, 2.25B ON APR 08
MINIMUM DAILY, 0.121 ON OCT 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 13 34 N
LONG 099 27 17 W
DRAINAGE AREA, 854 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	605
FEB	---	AUG	503
MAR	600	SEP	454
APR	2 930	OCT	428
MAY	1 560	NOV	---
JUN	668	DEC	---

TOTAL DISCHARGE, 7 750 dam³

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "WHITEMUD RIVER NEAR NEEPAWA"

BOISSEVAIN RESERVOIR NEAR BOISSEVAIN - STATION NO. 05OA801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	516.575	516.569E	516.500E	516.834	517.032	517.121E	517.471E	517.361	517.211E	517.087E	517.017	516.971	1
2	516.572E	516.569	516.502	516.865E	517.035E	517.118	517.468	517.357E	517.200	517.081	517.014E	516.971E	2
3	516.569	516.564E	516.500E	516.895	517.038	517.121E	517.494E	517.352	517.192E	517.079E	517.011	516.971	3
4	516.569E	516.550	516.499	516.918E	517.038E	517.124	517.520	517.345E	517.185	517.078	517.006E	516.970E	4
5	516.569	516.555E	516.499E	516.941	517.038	517.124E	517.512E	517.337	517.179E	517.073E	517.002	516.968	5
6	516.569E	516.551	516.499	516.941E	517.035E	517.124	517.505	517.329E	517.172	517.069	517.002E	516.968E	6
7	516.569	516.540E	516.503E	516.941	517.032	517.131E	517.505E	517.322	517.171E	517.063E	517.002	516.968	7
8	516.564E	516.529	516.508	516.948E	517.032E	517.139	517.505	517.311E	517.169	517.057	516.999E	516.967E	8
9	516.560	516.525E	516.506E	516.956	517.032	517.143E	517.497E	517.300	517.168E	517.055E	516.996	516.965	9
10	516.560E	516.520	516.505	516.964E	517.032E	517.148	517.489	517.296E	517.166	517.054	516.991E	516.965E	10
11	516.560	516.520E	516.589E	516.971	517.032E	517.145E	517.486E	517.291	517.157E	517.049E	516.987	516.965	11
12	516.557E	516.520	516.673	516.971E	517.032E	517.142	517.483	517.287E	517.148	517.044	516.987E	516.965E	12
13	516.554	516.520E	516.682E	516.971	517.032	517.136E	517.471E	517.282	517.136E	517.044E	516.987	516.965	13
14	516.572E	516.520	516.691	516.971E	517.032E	517.130	517.459	517.276E	517.124	517.044	516.987E	516.965E	14
15	516.590	516.517E	516.702E	516.971	517.032	517.127E	517.447E	517.270	517.136E	517.041E	516.987	516.965	15
16	516.590E	516.514	516.712	516.979E	517.078E	517.124	517.435	517.258E	517.148	517.038	516.987E	516.964E	16
17	516.590	516.514E	516.712E	516.987	517.124	517.188E	517.432E	517.246	517.139E	517.037E	516.987	516.962	17
18	516.590E	516.514	516.712	516.988E	517.127E	517.252	517.428	517.238E	517.130	517.035	516.987E	516.962E	18
19	516.590	516.511E	516.714E	516.990	517.130	517.313	517.422E	517.230	517.127E	517.032E	516.987	516.962	19
20	516.583E	516.508	516.715	516.993E	517.134E	517.496	517.416	517.223E	517.124	517.029	516.987E	516.962E	20
21	516.575	516.505E	516.715E	516.996	517.139	517.550	517.407E	517.215	517.118E	517.025E	516.987	516.962	21
22	516.572E	516.502	516.715	516.999E	517.140E	517.520	517.398	517.230E	517.112	517.020	516.987E	516.961E	22
23	516.569	516.500E	516.714E	517.002	517.142	517.512E	517.395E	517.246	517.108E	517.020E	516.987	516.959	23
24	516.566E	516.499	516.712	517.014E	517.142E	517.505	517.392	517.253E	517.105	517.020	516.983E	516.958E	24
25	516.563	516.500E	516.712E	517.026	517.142	517.497E	517.389E	517.261	517.099E	517.019E	516.980	516.956	25
26	516.566E	516.502	516.712	517.025E	517.140E	517.489	517.386	517.253E	517.093	517.017	516.979E	516.955E	26
27	516.569	516.500E	516.714E	517.023	517.139	517.489E	517.386E	517.246	517.089E	517.017E	516.977E	516.953	27
28	516.569E	516.499	516.715	517.028E	517.134E	517.489	517.386	517.240E	517.084	517.017	516.976E	516.953E	28
29	516.569		516.721E	517.032	517.130	517.482E	517.380E	517.233	517.089E	517.017E	516.974E	516.953	29
30	516.569E		516.727	517.032E	517.127E	517.474	517.374	517.227E	517.093	517.017	516.973E	516.951E	30
31	516.569		516.781E		517.124		517.368E	517.221		517.017E		516.950	31
MEAN	516.571	516.523	516.641	516.972	517.084	517.278	517.442	517.275	517.139	517.042	516.990	516.962	MEAN
MAX	516.590	516.569	516.781	517.032	517.142	517.550	517.520	517.361	517.211	517.087	517.017	516.971	MAX
MIN	516.554	516.499	516.499	516.834	517.032	517.118	517.368	517.215	517.084	517.017	516.973	516.950	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 516.996
MAXIMUM DAILY, 517.550 ON JUN 21
MINIMUM DAILY, 516.499 ON FEB 24

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 12 46 N
LONG 100 01 53 W

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 49.7 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

BOYNE RIVER ABOVE CARMAN DAM - STATION NO. 05OF801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	262.641E	262.798E	262.548	262.605E	262.518	262.491E	262.458	1
2	---	---	---	---	---	262.638	262.798	262.538E	262.591E	262.478	262.475E	---	2
3	---	---	---	---	---	262.628E	262.793E	262.528E	262.578	262.488	262.458	---	3
4	---	---	---	---	---	262.610	262.788	262.518	262.568E	262.471E	262.458E	---	4
5	---	---	---	---	---	262.733E	262.785E	262.518E	262.558	262.455E	262.458	---	5
6	---	---	---	---	---	262.848	262.781E	262.518	262.511E	262.438	262.458E	---	6
7	---	---	---	---	262.693	262.748E	262.778	262.523E	262.465E	262.428E	262.458	---	7
8	---	---	---	---	262.678	262.648	262.768E	262.528	262.418	262.418	262.455E	---	8
9	---	---	---	---	262.668E	262.655E	262.758	262.535E	262.408E	262.403E	262.451E	---	9
10	---	---	---	---	262.658	262.661E	262.738E	262.541E	262.398	262.388	262.448	---	10
11	---	---	---	---	262.653E	262.668	262.718	262.548	262.383E	262.375E	262.448E	---	11
12	---	---	---	---	262.648	262.678E	262.701E	262.553E	262.368	262.361E	262.448	---	12
13	---	---	---	---	262.648E	262.688	262.685E	262.558	262.351E	262.348	262.453E	---	13
14	---	---	---	---	262.648	262.715E	262.668	262.568E	262.335E	262.348E	262.458	---	14
15	---	---	---	---	262.648E	262.741E	262.663E	262.578	262.318	262.348	262.461E	---	15
16	---	---	---	---	262.648	262.768	262.658	262.588E	262.318E	262.368E	262.465E	---	16
17	---	---	---	---	262.648E	262.768E	262.653E	262.598E	262.318	262.388	262.468	---	17
18	---	---	---	---	262.648E	262.768	262.648	262.608	262.333E	262.431E	262.468E	---	18
19	---	---	---	---	262.648	262.773E	262.638E	262.608E	262.348	262.475E	262.468	---	19
20	---	262.634	---	---	262.648E	262.778	262.628E	262.608	262.425E	262.518	262.468E	---	20
21	---	---	---	---	262.648	262.785E	262.618	262.608E	262.501E	262.528E	262.468	---	21
22	---	---	---	---	262.653E	262.791E	262.613E	262.608	262.578	262.538	262.468E	---	22
23	---	---	---	---	262.658	262.798	262.608	262.611E	262.573E	262.548E	262.468E	---	23
24	---	---	---	---	262.661E	262.798E	262.598E	262.615E	262.568	262.558	262.468	---	24
25	---	---	---	---	262.665E	262.798	262.588	262.618	262.563E	262.568E	262.468E	---	25
26	---	---	---	---	262.668	262.798E	262.581E	262.613E	262.558	262.578E	262.468	---	26
27	---	---	---	---	262.668E	262.798	262.575E	262.608	262.555E	262.588	262.463E	---	27
28	---	---	---	---	262.668	262.798E	262.568	262.601E	262.551E	262.568E	262.458	---	28
29	---		---	---	262.658E	262.798E	262.563E	262.598	262.548	262.548	262.458E	---	29
30	---		---	---	262.648	262.798	262.558	262.608E	262.533E	262.528E	262.458E	---	30
31	262.594		---		262.645E		262.553E	262.618		262.508		---	31
MEAN	---	---	---	---	---	262.737	262.673	262.575	262.471	262.468	262.462	---	MEAN
MAX	---	---	---	---	---	262.848	262.798	262.618	262.605	262.588	262.491	---	MAX
MIN	---	---	---	---	---	262.618	262.553	262.518	262.318	262.348	262.448	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 262.848 ON JUN 06
MINIMUM DAILY, 0.000 ON MAR 01

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 30 17 N
LONG 098 01 03 W

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1941

DRAINAGE AREA,
1 100 km²

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.004B	0.008B	0.036B	5.94B	0.901	0.345	0.941	0.098	0.075	0.013	0.050	0.025B	1
2	0.003B	0.009B	0.033B	20.7 B	0.795	0.372	1.03	0.145	0.060	0.013	0.034	0.028B	2
3	0.003B	0.010B	0.034B	22.1 B	0.730	0.899	1.17	0.148	0.041	0.012	0.029	0.027B	3
4	0.003B	0.011B	0.032B	19.0 B	0.709	6.95	1.24	0.139	0.029	0.011	0.026	0.024B	4
5	0.002B	0.012B	0.035B	14.9 B	0.720	6.21	1.48	0.112	0.021	0.011	0.026	0.022B	5
6	0.003B	0.012B	0.039B	13.9 B	0.724	4.02	1.52	0.100	0.022	0.011	0.026	0.021B	6
7	0.003B	0.014B	0.042B	12.4 B	0.697	2.79	1.53	0.096	0.023	0.011	0.022	0.020B	7
8	0.004B	0.019B	0.044B	9.09B	0.643	2.40	2.10	0.082	0.021	0.010	0.021	0.019B	8
9	0.004B	0.015B	0.045B	8.23B	0.607	2.13	5.75	0.086	0.020	0.010	0.020	0.020B	9
10	0.002B	0.020B	0.061B	7.23B	0.570	2.43	3.73	0.081	0.024	0.010	0.019	0.020B	10
11	0.002B	0.015B	0.093B	6.45B	0.523	2.40	2.17	0.095	0.019	0.011	0.018B	0.021B	11
12	0.004B	0.018B	0.249B	5.35B	0.483	1.99	1.58	0.106	0.014	0.011	0.020B	0.023B	12
13	0.004B	0.016B	1.98 B	4.44B	0.456	2.01	1.22	0.102	0.014	0.012	0.021B	0.023B	13
14	0.003B	0.019B	2.08 B	3.86B	0.450	1.98	0.948	0.140	0.014	0.011	0.023B	0.025B	14
15	0.003B	0.017B	1.13 B	4.57B	0.443	2.15	0.763	0.146	0.013	0.011	0.024B	0.027B	15
16	0.003B	0.017B	1.36 B	4.00B	0.476	2.01	0.611	0.132	0.013	0.011	0.026B	0.029B	16
17	0.003B	0.024B	0.919B	4.02B	0.477	1.86	0.493	0.148	0.013	0.011	0.026B	0.030B	17
18	0.003B	0.018B	0.324B	2.78	0.677	1.64	0.381	0.129	0.019	0.011	0.024B	0.032B	18
19	0.002B	0.024B	0.168B	2.34	1.19	1.46	0.338	0.107	0.032	0.010	0.028B	0.028B	19
20	0.003B	0.027B	0.151B	2.29	1.17	1.48	0.305	0.096	0.025	0.010	0.039B	0.025B	20
21	0.003B	0.022B	0.249B	2.49	1.05	1.51	0.261	0.089	0.026	0.010	0.048B	0.026B	21
22	0.005B	0.028B	0.237B	2.44	0.967	2.77	0.216	0.100	0.026	0.009	0.057B	0.033B	22
23	0.004B	0.027B	0.151B	2.16	0.892	3.03	0.156	0.265	0.032	0.009	0.053B	0.032B	23
24	0.005B	0.035B	0.116B	2.03	0.847	2.22	0.135	0.168	0.036	0.009	0.046B	0.032B	24
25	0.007B	0.043B	0.124B	1.82	0.765	1.77	0.122	0.126	0.033	0.009	0.041B	0.031B	25
26	0.007B	0.041B	0.158B	1.60	0.668	1.43	0.108	0.133	0.028	0.009	0.039B	0.029B	26
27	0.008B	0.037B	0.110B	1.43	0.596	1.22	0.106	0.152	0.023	0.011	0.035B	0.027B	27
28	0.007B	0.038B	0.138B	1.28	0.548	0.978	0.096	0.159	0.019	0.029	0.032B	0.027B	28
29	0.009B		0.234B	1.12	0.488	0.809	0.096	0.130	0.016	0.027	0.029B	0.024B	29
30	0.007B		1.57 B	1.08	0.437	0.822	0.084	0.114	0.014	0.021	0.025B	0.021B	30
31	0.008B		2.28 B		0.393		0.080	0.100		0.049		0.018B	31
TOTAL	0.131	0.596	14.222	191.04	21.092	64.085	30.760	3.827	0.764	0.413	0.927	0.788	TOTAL
MEAN	0.004	0.021	0.459	6.37	0.680	2.14	0.992	0.124	0.026	0.013	0.031	0.025	MEAN
MAX	0.009	0.043	2.28	22.1	1.19	6.95	5.75	0.265	0.075	0.049	0.057	0.033	MAX
MIN	0.002	0.008	0.032	1.08	0.393	0.345	0.080	0.081	0.013	0.009	0.018	0.018	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.900
MAXIMUM DAILY, 22.1B ON APR 03
MINIMUM DAILY, 0.002B ON JAN 05
MAXIMUM INSTANTANEOUS
23.8B AT 10:21 CST ON APR 03

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 00 N
LONG 097 56 40 W

DRAINAGE AREA, 1 150 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	11.3	JUL 2	660
FEB	51.5	AUG	331
MAR 1	230	SEP	66.0
APR 16	500	OCT	35.7
MAY 1	820	NOV	80.1
JUN 5	540	DEC	68.1

TOTAL DISCHARGE, 28 400 dam³

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	10.2 B	0.580	0.032	1.38	0	0	0	---	---	1
2	---	---	0 B	15.0 B	0.577	0.057	1.28	0	0	0	---	---	2
3	---	---	0 B	13.0 B	0.565	0.388	1.28	0	0	0	---	---	3
4	---	---	0 B	10.8 B	0.450	0.225	1.18	0	0	0	---	---	4
5	---	---	0 B	8.76 B	0.363	0.527	1.07	0	0				5
6	---	---	0 B	6.00 B	0.283	0.760	0.990	0	0	0	---	---	6
7	---	---	0 B	5.21 B	0.199	0.441	2.54	0	0	0	---	---	7
8	---	---	0 B	4.94 B	0.179	0.862	1.15	0	0	0	---	---	8
9	---	---	0.200B	4.35 B	0.150	0.898	0.847	0	0	0	---	---	9
10	---	---	0.436B	3.78 B	0.117	0.625	0.684	0	0				10
11	---	---	0.019B	3.17 B	0.098	0.562	0.573	0	0	0	---	---	11
12	---	---	0.365B	2.65	0.092	0.669	0.481	0	0	0	---	---	12
13	---	---	2.10 B	2.43	0.066	0.908	0.396	0	0	0	---	---	13
14	---	---	1.22 B	2.06	0.079	1.15	0.329	0	0	0	---	---	14
15	---	---	1.82 B	1.72	0.062	1.12	0.257	0	0				15
16	---	---	1.22 B	1.53	0.797	0.940	0.212	0	0	0	---	---	16
17	---	---	1.67 B	1.24	1.84	0.774	0.165	0	0	0	---	---	17
18	---	---	1.47 B	1.18	1.16	0.633	0.120	0	0	0	---	---	18
19	---	---	1.04 B	1.19	0.905	0.584	0.073	0	0	0	---	---	19
20	---	---	0.586B	1.14	0.871	0.718	0.045	0	0				20
21	---	---	0.397B	1.02	0.836	1.19	0.023	0	0	0	---	---	21
22	---	---	0.253B	0.956	0.781	1.10	0.006	0	0	0	---	---	22
23	---	---	0.101B	0.823	0.653	0.849	0	0	0	0	---	---	23
24	---	---	0.029B	0.726	0.512	0.608	0	0	0	0	---	---	24
25	---	---	0.004B	0.754	0.379	0.462	0	0					25
26	---	---	0.002B	0.819	0.281	0.396	0	0	0	0	---	---	26
27	---	---	0.001B	0.923	0.224	0.695	0	0	0	0	---	---	27
28	---	---	0.020B	0.577	0.172	1.16	0	0	0	0	---	---	28
29	---	---	0.281B	0.577	0.122	1.39	0	0	0	0	---	---	29
30	---		2.13 B	0.526	0.090	1.46	0	0	0	0		---	30
31	---		4.79 B		0.057		0	0		0			31
TOTAL	---	---	20.154	108.246	13.540	22.254	15.081	0	0	0	---	---	TOTAL
MEAN	---	---	0.650	3.61	0.437	0.742	0.487	0	0	0	---	---	MEAN
MAX	---	---	4.79	15.0	1.84	1.46	2.54	0	0	0	---	---	MAX
MIN	---	---	0	0.526	0.057	0.032	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.732
MAXIMUM DAILY, 15.0B ON APR 02
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
15.3B AT 11:24 CST ON APR 02

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 32 39 N
LONG 098 24 52 W
DRAINAGE AREA, 574 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 300
FEB	---	AUG	0
MAR	1 740	SEP	0
APR	9 350	OCT	0
MAY	1 170	NOV	---
JUN	1 920	DEC	---

TOTAL DISCHARGE, 15 500 dam³

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.056B	0.039B	0.153B	21.1 B	1.00	0.315	0.727	0.284	0.161	0.079	0.043	0.092B	1
2	0.048B	0.047B	0.130B	21.8 B	0.949	2.72	0.714	0.287	0.177	0.092	0.028	0.062B	2
3	0.034B	0.067B	0.085B	19.3	0.957	7.31	0.767	0.272	0.171	0.085	0.040	0.057B	3
4	0.021B	0.059B	0.041B	18.9	0.967	5.66	0.959	0.264	0.158	0.073	0.041	0.041B	4
5	0.035B	0.062B	0.033B	15.1	0.928	3.67	0.726	0.286	0.144	0.064	0.042	0.044B	5
6	0.028B	0.065B	0.030B	10.6	0.877	2.65	0.617	0.227	0.118	0.047	0.035	0.042B	6
7	0.016B	0.059B	0.034B	8.47	0.782	2.11	4.62	0.237	0.115	0.041	0.026	0.035B	7
8	0.014B	0.061B	0.012B	7.60	0.714	2.40	2.03	0.246	0.102	0.032	0.049	0.027B	8
9	0.010B	0.032B	0.106B	6.89	0.622	2.67	1.37	0.239	0.131	0.025	0.046	0.027B	9
10	0.007B	0.039B	0.271B	5.80	0.557	2.27	1.15	0.264	0.130	0.023	0.041	0.017B	10
11	0.014B	0.051B	0.266B	4.80	0.517	1.96	0.665	0.264	0.096	0.041	0.043	0.003B	11
12	0.018B	0.050B	0.372B	4.15	0.471	1.89	0.485	0.256	0.118	0.090	0.040	0.013B	12
13	0.027B	0.048B	0.329B	3.84	0.457	2.33	0.397	0.236	0.094	0.096	0.042	0.008B	13
14	0.018B	0.044B	0.195B	3.99	0.439	2.26	0.326	0.246	0.095	0.080	0.034	0.002B	14
15	0.027B	0.038B	0.124B	3.48	0.386	2.13	0.310	0.248	0.117	0.053	0.037	0.068B	15
16	0.044B	0.036B	0.175B	2.93	0.516	1.92	0.331	0.234	0.102	0.025	0.053	0.073B	16
17	0.040B	0.034B	0.172B	2.58	0.973	1.71	0.329	0.230	0.112	0.046	0.053	0.075B	17
18	0.038B	0.038B	0.190B	2.25	1.22	1.47	0.331	0.214	0.121	0.067	0.049	0.083B	18
19	0.025B	0.044B	0.141B	2.34	1.13	1.28	0.338	0.204	0.114	0.047	0.045	0.086B	19
20	0.041B	0.059B	0.129B	2.44	1.02	1.48	0.323	0.188	0.099	0.071	0.044	0.061B	20
21	0.043B	0.054B	0.119B	2.29	0.941	1.95	0.310	0.158	0.119	0.070	0.033	0.051B	21
22	0.034B	0.048B	0.088B	2.20	0.958	1.52	0.271	0.145	0.130	0.060	0.018	0.048B	22
23	0.054B	0.052B	0.082B	2.03	0.863	0.972	0.281	0.144	0.108	0.047	0.020	0.041B	23
24	0.065B	0.063B	0.090B	1.75	0.786	0.705	0.243	0.104	0.092	0.062	0.026B	0.045B	24
25	0.070B	0.072B	0.084B	1.61	0.678	0.591	0.213	0.097	0.078	0.052	0.038B	0.036B	25
26	0.068B	0.094B	0.118B	1.47	0.604	0.500	0.219	0.125	0.045	0.030	0.043B	0.027B	26
27	0.063B	0.101B	0.150B	1.34	0.557	0.455	0.266	0.170	0.040	0.044	0.052B	0.034B	27
28	0.062B	0.124B	0.201B	1.46	0.510	0.546	0.255	0.174	0.034	0.043	0.062B	0.039B	28
29	0.056B		0.285B	1.17	0.442	0.679	0.252	0.158	0.054	0.019	0.072B	0.031B	29
30	0.054B		0.301B	1.11	0.389	0.752	0.241	0.146	0.065	0.005	0.092B	0.034B	30
31	0.042B		7.28 B		0.341		0.246	0.137		0.029		0.039B	31
TOTAL	1.172	1.580	11.794	184.91	22.551	58.875	22.312	6.484	3.240	1.638	1.287	1.341	TOTAL
MEAN	0.038	0.056	0.381	6.16	0.728	1.96	0.720	0.209	0.108	0.053	0.043	0.043	MEAN
MAX	0.070	0.124	7.28	21.8	1.22	7.31	5.03	0.287	0.177	0.096	0.092	0.092	MAX
MIN	0.007	0.032	0.012	1.11	0.341	0.315	0.213	0.097	0.034	0.005	0.018	0.002	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.869
MAXIMUM DAILY, 21.8B ON APR 02
MINIMUM DAILY, 0.002B ON DEC 14
MAXIMUM INSTANTANEOUS,
24.9 AT 21:00 CST ON APR 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 48 N
LONG 098 14 58 W
DRAINAGE AREA, 958 km²

B - ICE CONDITIONS

REGULATED SINCE 1964

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	101	JUL	1 930
FEB	137	AUG	560
MAR	1 020	SEP	280
APR	16 000	OCT	142
MAY	1 950	NOV	111
JUN	5 090	DEC	116

TOTAL DISCHARGE, 27 400 dam³

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.11 B	0.124	0.031	0.537	---	---	---	---	---	1
2	---	---	0 B	4.61 B	0.120	0.093	0.455	---	---	---	---	---	2
3	---	---	0 B	4.53	0.147	0.177	0.432	---	---	---	---	---	3
4	---	---	0 B	4.26	0.159	0.309	0.420	---	---	---	---	---	4
5	---	---	0 B	2.70	0.158	0.281	0.290	---	---	---	---	---	5
6	---	---	0 B	2.13	0.153	0.218	0.233	---	---	---	---	---	6
7	---	---	0 B	2.41	0.139	0.184	0.191	---	---	---	---	---	7
8	---	---	0 B	1.66	0.130	0.625	0.182	---	---	---	---	---	8
9	---	---	0 B	1.30	0.112	2.50	0.143	---	---	---	---	---	9
10	---	---	0 B	1.03	0.092	1.18	0.098	---	---	---	---	---	10
11	---	---	0 B	0.826	0.076	0.656	0.076	---	---	---	---	---	11
12	---	---	0.233B	0.669	0.065	0.453	0.197	---	---	---	---	---	12
13	---	---	1.75 B	0.601	0.067	0.371	---	---	---	---	---	---	13
14	---	---	1.42 B	0.568	0.073	0.200	---	---	---	---	---	---	14
15	---	---	1.10 B	0.385	0.067	0.218	---	---	---	---	---	---	15
16	---	---	0.867B	0.304	0.211	0.153	---	---	---	---	---	---	16
17	---	---	0.700B	0.308	0.534	0.116	---	---	---	---	---	---	17
18	---	---	0.500B	0.240	0.539	0.101	---	---	---	---	---	---	18
19	---	---	0.510B	0.302	0.368	0.098	---	---	---	---	---	---	19
20	---	---	0.520B	0.384	0.243	0.116	---	---	---	---	---	---	20
21	---	---	0.450B	0.339	0.181	1.23	---	---	---	---	---	---	21
22	---	---	0.384B	0.298	0.214	1.86	---	---	---	---	---	---	22
23	---	---	0.352B	0.269	0.333	1.68	---	---	---	---	---	---	23
24	---	---	0.372B	0.226	0.251	1.64	---	---	---	---	---	---	24
25	---	---	0.357B	0.234	0.188	1.35	---	---	---	---	---	---	25
26	---	---	0.314B	0.247	0.122	1.15	---	---	---	---	---	---	26
27	---	---	0.286B	0.194	0.088	0.994	---	---	---	---	---	---	27
28	---	---	0.319B	0.150	0.074	0.864	---	---	---	---	---	---	28
29	---	---	0.866B	0.122	0.101	0.751	---	---	---	---	---	---	29
30	---		2.92 B	0.124	0.051	0.631	---	---	---	---	---	---	30
31	---		5.16 B		0.033		---	---		---		---	31
TOTAL	---	---	19.380	36.530	5.213	20.310	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.625	1.22	0.168	0.677	---	---	---	---	---	---	MEAN
MAX	---	---	5.16	5.11	0.539	2.50	---	---	---	---	---	---	MAX
MIN	---	---	0	0.122	0.033	0.031	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.667
MAXIMUM DAILY, 5.16B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
6.01B AT 20:16 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 40 15 N
LONG 098 38 35 W
DRAINAGE AREA, 274 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	1 670	SEP	---
APR	3 160	OCT	---
MAY	450	NOV	---
JUN	1 750	DEC	---

TOTAL DISCHARGE, 7 030 dam³

BRERETON LAKE AT BRERETON LAKE (INVERNESS FALLS) - STATION NO. 05PG807

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	315.773E	315.969E	316.078E	315.979E	315.904E	315.761E	315.675	315.620E	315.635E	1
2	---	---	---	315.773	315.982E	316.098E	315.968	315.904	315.757E	315.669	315.621E	315.635E	2
3	---	---	---	315.781E	315.995E	316.118E	316.001	315.898E	315.753E	315.669	315.622E	315.634E	3
4	---	---	---	315.789E	316.008E	316.139	315.986E	315.892E	315.749E	315.666	315.623E	315.634E	4
5	---	---	---	315.797	316.021E	316.196	315.971	315.886E	315.744E	315.660	315.623E	315.633E	5
6	---	---	315.724	315.799E	316.034E	316.196	315.971E	315.879E	315.740E	315.657	315.624E	315.633E	6
7	---	---	---	315.800E	316.047	316.196	315.971E	315.873	315.736	315.651	315.625E	315.633	7
8	---	---	---	315.802E	316.032	316.169	315.971	315.865E	315.730	315.648	315.626E	---	8
9	---	---	---	315.803	316.037E	316.154	315.971	315.857E	315.724	315.645	315.626E	---	9
10	---	---	---	315.809E	316.042E	316.143E	315.970E	315.849	315.715	315.636	315.627E	---	10
11	---	---	---	315.815	316.047E	316.131E	315.969E	315.839E	315.715	315.642	315.628E	---	11
12	---	---	---	315.819E	316.052E	316.120	315.968	315.829E	315.709	315.636	315.629E	---	12
13	---	---	---	315.822E	316.057E	316.120	315.960E	315.819	315.712	315.639	315.629E	---	13
14	---	---	---	315.825E	316.062	316.099E	315.951E	315.819E	315.700	315.645	315.630E	---	14
15	---	---	---	315.829E	316.066E	316.078E	315.943E	315.819E	315.700	315.645	315.631E	---	15
16	---	---	315.767	315.831E	316.070E	316.056E	315.934	315.819	315.681	315.645	315.632E	---	16
17	---	---	315.767	315.834	316.075	316.035E	315.930E	315.812E	315.681	315.642	315.632E	---	17
18	---	---	315.773	315.838E	316.076E	316.014	315.925	315.806E	315.697	315.636	315.633E	---	18
19	---	---	315.773	315.842E	316.078E	316.010E	315.910	315.800E	315.697	315.633	315.634E	---	19
20	---	---	315.773E	315.846	316.079E	316.005E	315.913E	315.794	315.712	315.633	315.635E	---	20
21	---	---	315.773E	315.855E	316.081	316.001	315.916	315.790E	315.700	315.633	315.635E	---	21
22	---	---	315.773E	315.864E	316.085E	316.001	315.910E	315.786E	315.703	315.630	315.636	---	22
23	---	---	315.773E	315.873E	316.089E	315.996E	315.904	315.782	315.697	315.626	315.636E	---	23
24	---	---	315.773E	315.883	316.093	315.991E	315.904E	315.794	315.690	315.626	315.636E	---	24
25	---	---	315.773E	315.904	316.078E	315.986	315.904E	315.790E	315.690	315.623	315.636E	---	25
26	---	---	315.773	315.898	316.062E	315.986	315.904	315.786E	315.687	315.623	315.636E	---	26
27	---	---	315.773E	315.917E	316.047E	316.001	315.904E	315.782	315.687	315.620	315.636E	---	27
28	---	---	315.773E	315.927E	316.032E	316.001E	315.904E	315.778E	315.681	315.620	315.636E	---	28
29	---		315.773E	315.941E	316.017	316.001	315.904E	315.774E	315.678	315.620E	315.636	---	29
30	---		315.773E	315.956	316.037E	315.990E	315.904	315.769E	315.675	315.620E	315.636E	---	30
31	---		315.773E		316.057E		315.904E	315.765E		315.620E		---	31
MEAN	---	---	---	315.841	316.049	316.070	315.939	315.824	315.710	315.640	315.630	---	MEAN
MAX	---	---	---	315.956	316.093	316.196	316.001	315.904	315.761	315.675	315.636	---	MAX
MIN	---	---	---	315.773	315.969	315.986	315.904	315.765	315.675	315.620	315.620	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 316.196 ON JUN 05

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 55 39 N
LONG 095 32 36 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1962

DRAINAGE AREA,
159 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.076B	0.054B	0.090B	7.61 B	1.70	1.79	7.29	0.699	0.014	0.010	0.111	0.085B	1
2	0.075B	0.050B	0.087B	6.58 B	1.67	3.38	9.87	0.702	0.014	0.010	0.104	0.076B	2
3	0.073B	0.052B	0.083B	4.84 B	1.64	8.76	9.54	0.723	0.014	0.009	0.150	0.072B	3
4	0.072B	0.060B	0.091B	4.62 B	1.61	7.34	6.90	0.720	0.016	0.118	0.051	0.063B	4
5	0.070B	0.069B	0.078B	5.33 B	1.56	7.05	6.71	0.743	0.014	0.022	0.145	0.054B	5
6	0.069B	0.076B	0.075B	4.30 B	1.45	8.34	6.38	0.627	0.013	0.012	0.053	0.049B	6
7	0.074B	0.085B	0.071B	3.62 B	1.47	9.33	6.57	0.553	0.011	0.012	0.123	0.067B	7
8	0.078B	0.094B	0.090B	2.71 B	1.40	11.0	6.91	0.490	0.010	0.011	0.148	0.112B	8
9	0.084B	0.081B	0.160B	2.29 B	1.43	14.5	6.56	0.403	0.010	0.012	0.041	0.090B	9
10	0.088B	0.085B	0.208B	2.31 B	1.41	16.7	6.02	0.335	0.010	0.013	0.067	0.045B	10
11	0.087B	0.072B	0.199B	2.40 B	1.38	19.0	5.63	0.282	0.009	0.017	0.096	0.054B	11
12	0.086B	0.076B	0.133B	2.63 B	1.30	22.9	5.17	0.259	0.008	0.013	0.126	0.063B	12
13	0.085B	0.085B	0.350B	2.69 B	1.27	22.7	4.71	0.233	0.008	0.012	0.127	0.067B	13
14	0.084B	0.085B	0.686B	2.08 B	1.28	22.2	4.20	0.182	0.009	0.012	0.144	0.076B	14
15	0.083B	0.076B	0.704B	2.43 B	1.36	21.0	3.75	0.143	0.011	0.012	0.068	0.085B	15
16	0.083B	0.081B	2.30 B	2.22 B	1.44	19.2	3.28	0.096	0.007	0.012	0.080	0.094B	16
17	0.081B	0.085B	1.09 B	1.37 B	1.86	17.4	3.03	0.064	0.008	0.017	0.059	0.090B	17
18	0.078B	0.090B	1.65 B	1.17 B	2.53	15.7	2.76	0.044	0.014	0.014	0.053	0.085B	18
19	0.076B	0.094B	1.63 B	1.00	2.80	14.7	2.54	0.038	0.013	0.018	0.071	0.083B	19
20	0.074B	0.103B	1.48 B	0.990	2.62	17.1	2.26	0.033	0.012	0.014	0.055	0.081B	20
21	0.073B	0.108B	1.39 B	0.982	2.82	17.4	2.04	0.026	0.015	0.013	0.063B	0.079B	21
22	0.070B	0.112B	1.31 B	0.817	2.64	16.8	1.81	0.023	0.016	0.017	0.076B	0.076B	22
23	0.068B	0.110B	1.15 B	0.732	2.79	17.2	1.72	0.023	0.015	0.033	0.072B	0.072B	23
24	0.066B	0.107B	1.09 B	0.680	2.94	16.7	1.57	0.015	0.013	0.027	0.072B	0.070B	24
25	0.064B	0.103B	1.03 B	0.672	2.98	15.1	1.42	0.014	0.011	0.061	0.067B	0.067B	25
26	0.069B	0.100B	1.05 B	0.637	2.80	13.2	1.27	0.016	0.008	0.041	0.063B	0.063B	26
27	0.067B	0.097B	1.03 B	1.08	2.65	11.5	1.19	0.015	0.008	0.088	0.058B	0.061B	27
28	0.064B	0.094B	0.906B	1.51	2.42	10.0	1.14	0.014	0.008	0.095	0.054B	0.058B	28
29	0.061B		0.953B	1.75	2.20	8.71	0.992	0.013	0.008	0.193	0.045B	0.056B	29
30	0.058B		1.90 B	1.74	2.03	7.86	0.837	0.012	0.009	0.134	0.063B	0.054B	30
31	0.056B		6.89 B		1.93		0.715	0.014		0.147		0.053B	31
TOTAL	2.292	2.384	29.946	73.798	61.38	414.56	118.864	7.560	0.336	1.219	2.505	2.200	TOTAL
MEAN	0.074	0.085	0.966	2.46	1.98	13.8	3.83	0.244	0.011	0.039	0.084	0.071	MEAN
MAX	0.088	0.112	6.89	7.61	2.98	22.9	7.29	0.743	0.016	0.193	0.150	0.112	MAX
MIN	0.056	0.050	0.071	0.637	1.27	1.79	0.715	0.012	0.007	0.009	0.041	0.045	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.96
MAXIMUM DAILY, 22.9 ON JUN 12
MINIMUM DAILY, 0.007 ON SEP 16
MAXIMUM INSTANTANEOUS, 23.6 AT 17:26 CST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 05 25 N
LONG 096 25 46 W
DRAINAGE AREA, 1 610 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	198	JUL	10 300
FEB	206	AUG	653
MAR	2 590	SEP	29.0
APR	6 380	OCT	105
MAY	5 300	NOV	216
JUN	35 800	DEC	190

TOTAL DISCHARGE, 62 000 dam³

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.005B	0.348	0.623	4.46	0.289	0	0	---	---	1
2	---	---	0 B	0.015B	0.353	1.39	4.28	0.259	0	0	---	---	2
3	---	---	0 B	0.230B	0.358	1.50	4.37	0.186	0	0	---	---	3
4	---	---	0 B	0.646B	0.379	1.39	4.35	0.136	0	0	---	---	4
5	---	---	0 B	0.896B	0.395	1.36	4.22	0.052	0				5
6	---	---	0 B	0.976B	0.402	1.35	4.09	0.007	0	0	---	---	6
7	---	---	0 B	0.960B	0.403	1.61	4.26	0.003	0	0	---	---	7
8	---	---	0 B	0.902B	0.399	2.64	4.10	0.069	0	0	---	---	8
9	---	---	0 B	0.860B	0.374	3.83	3.84	0.005	0	0	---	---	9
10	---	---	0 B	0.872B	0.350	4.87	3.56	0.004	0				10
11	---	---	0 B	0.774B	0.339	6.11	3.25	0.002	0	0	---	---	11
12	---	---	0 B	0.691B	0.334	7.45	2.92	0.001	0	0	---	---	12
13	---	---	0 B	0.655B	0.326	8.44	2.62	0.004	0	0	---	---	13
14	---	---	0 B	0.604B	0.352	8.36	2.34	0.005	0	0	---	---	14
15	---	---	0 B	0.545B	0.357	7.97	2.08	0.004	0				15
16	---	---	0 B	0.501B	0.446	7.64	1.88	0.004	0	0	---	---	16
17	---	---	0 B	0.460B	0.693	7.35	1.70	0.003	0	0	---	---	17
18	---	---	0 B	0.461B	0.692	7.21	1.59	0.003	0	0	---	---	18
19	---	---	0 B	0.495B	0.696	7.10	1.45	0.002	0	0	---	---	19
20	---	---	0 B	0.469	0.682	7.42	1.32	0.001	0				20
21	---	---	0 B	0.424	0.684	8.10	1.21	0	0	0	---	---	21
22	---	---	0 B	0.390	0.764	8.22	1.14	0	0	0	---	---	22
23	---	---	0 B	0.397	0.769	7.92	1.04	0	0	0	---	---	23
24	---	---	0 B	0.386	0.795	7.27	0.925	0	0	0	---	---	24
25	---	---	0 B	0.379	0.776	6.65	0.827	0	0				25
26	---	---	0 B	0.359	0.767	6.08	0.760	0	0	0	---	---	26
27	---	---	0 B	0.343	0.742	5.50	0.613	0	0	0	---	---	27
28	---	---	0 B	0.346	0.715	5.04	0.559	0	0	0	---	---	28
29	---	---	0.001B	0.356	0.687	4.70	0.447	0	0	0	---	---	29
30	---	---	0.002B	0.348	0.670	4.69	0.365	0	0	0	---	---	30
31	---	---	0.003B		0.643		0.333	0					31
TOTAL	---	---	0.006	15.745	16.682	159.783	70.899	1.039	0	0	---	---	TOTAL
MEAN	---	---	0	0.525	0.538	5.33	2.29	0.034	0	0	---	---	MEAN
MAX	---	---	0.003	0.976	0.785	8.44	4.46	0.289	0	0	---	---	MAX
MIN	---	---	0	0.005	0.328	0.623	0.333	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.08
MAXIMUM DAILY, 8.44 ON JUN 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 8.59 AT 19:32 CST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 07 N
LONG 096 21 57 W
DRAINAGE AREA, 857 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6 130
FEB	---	AUG	89.8
MAR	0.518	SEP	0
APR	1 360	OCT	0
MAY	1 440	NOV	---
JUN	13 800	DEC	---

TOTAL DISCHARGE, 22 800 dam³

BUFFALO CREEK NEAR ROSENFELD - STATION NO. 05OC019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	9.90 B	0.060	0.112	0.106	0.037	0	0	---	---	1
2	---	---	0 B	10.8 B	0.059	0.152	0.128	0.037	0	0	---	---	2
3	---	---	0 B	12.2 B	0.062	0.228	0.992	0.035	0	0	---	---	3
4	---	---	0 B	10.3 B	0.064	0.311	0.812	0.032	0	0	---	---	4
5	---	---	0 B	8.67 B	0.063	0.293	0.546	0.029	0	0	---	---	5
6	---	---	0 B	6.63 B	0.073	0.186	0.464	0.026	0	0	---	---	6
7	---	---	0 B	4.60 B	0.060	0.136	0.394	0.021	0	0	---	---	7
8	---	---	0 B	2.96 B	0.058	0.144	0.321	0.018	0	0	---	---	8
9	---	---	0 B	1.92 B	0.058	0.133	0.246	0.014	0	0	---	---	9
10	---	---	0 B	1.37 B	0.051	0.138	0.270	0.010	0	0	---	---	10
11	---	---	0 B	1.70 B	0.044	0.160	0.242	0.010	0	0	---	---	11
12	---	---	0 B	2.37 B	0.039	0.182	0.186	0.009	0	0	---	---	12
13	---	---	0.007B	0.665B	0.036	0.160	0.145	0.006	0	0	---	---	13
14	---	---	0.025B	0.372B	0.035	0.126	0.118	0.005	0	0	---	---	14
15	---	---	0.043B	0.290B	0.034	0.101	0.098	0.003	0	0	---	---	15
16	---	---	0.028B	0.248E	0.037	0.907	0.081	0	0	0	---	---	16
17	---	---	0.019B	0.207E	0.045	1.80	0.067	0	0	0	---	---	17
18	---	---	0.013B	0.184E	0.040	0.920	0.058	0	0	0	---	---	18
19	---	---	0.010B	0.165E	0.036	0.949	0.052	0	0	0	---	---	19
20	---	---	0.005B	0.155A	0.033	2.32	0.046	0	0	0	---	---	20
21	---	---	0.001B	0.141	0.067	2.42	0.045	0	0	0	---	---	21
22	---	---	0 B	0.122	0.166	1.40	0.044	0	0	0	---	---	22
23	---	---	0 B	0.109	0.174	0.828	0.043	0	0	0	---	---	23
24	---	---	0 B	0.094	0.170	0.506	0.041	0	0	0.009	---	---	24
25	---	---	0 B	0.087	0.163	0.303	0.039	0	0	0.093	---	---	25
26	---	---	0 B	0.078	0.157	0.200	0.038	0	0	0.095	---	---	26
27	---	---	0 B	0.070	0.152	0.155	0.038	0	0	0.089	---	---	27
28	---	---	0.011B	0.069	0.147	0.135	0.038	0	0	0.072	---	---	28
29	---	---	0.101B	0.069	0.139	0.122	0.038	0	0	0.058	---	---	29
30	---		0.430B	0.066	0.129	0.113	0.039	0	0	0.056A	---	---	30
31	---		4.52 B		0.120		0.039	0		0.052E		---	31
TOTAL	---	---	5.213	75.511	2.571	15.640	5.814	0.292	0	0.524	---	---	TOTAL
MEAN	---	---	0.168	2.52	0.083	0.521	0.188	0.009	0	0.017	---	---	MEAN
MAX	---	---	4.52	12.2	0.174	2.42	0.992	0.037	0	0.095	---	---	MAX
MIN	---	---	0	0.066	0.033	0.101	0.038	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.431
MAXIMUM DAILY, 12.2B ON APR 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
14.2 AT 17:48 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 30 N
LONG 097 24 00 W
DRAINAGE AREA, 776 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	502
FEB	---	AUG	25.2
MAR	450	SEP	0
APR	6 520	OCT	45.3
MAY	222	NOV	---
JUN	1 350	DEC	---

TOTAL DISCHARGE, 9 110 dam³

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "PLUM RIVER NEAR ROSENFELD"

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO. 05TE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.90B	5.30B	4.95B	4.50B	22.6B	40.5	25.3	13.9	5.29	2.68	4.21B	3.64B	1
2	5.80B	5.30B	4.95B	4.50B	22.0B	39.5	24.9	13.5	4.94	2.53	4.18B	3.62B	2
3	5.70B	5.30B	4.90B	4.50B	22.3B	38.5	23.7	13.1	4.79	2.35	4.14B	3.62B	3
4	5.66B	5.25B	4.90B	4.50B	22.4B	38.0	22.6	12.5	4.78	2.68	4.11B	3.60B	4
5	5.60B	5.25B	4.90B	4.50B	22.6B	37.3	21.8	12.3	4.84	2.68	4.09B	3.60B	5
6	5.60B	5.25B	4.85B	4.45B	23.4B	36.1	21.3	11.9	4.86	2.67	4.06B	3.58B	6
7	5.60B	5.20B	4.85B	4.45B	26.6B	34.7	21.0	11.6	4.83	2.68	4.04B	3.56B	7
8	5.55B	5.20B	4.80B	4.45B	32.8B	33.8	20.7	11.1	4.54	2.76	4.02B	3.56B	8
9	5.55B	5.20B	4.80B	4.45B	40.0B	33.0	20.4	10.6	4.23	2.81	3.99B	3.54B	9
10	5.55B	5.20B	4.75B	4.44B	47.5B	32.1	20.1	10.2	4.16	2.87	3.97B	3.54B	10
11	5.55B	5.20B	4.75B	4.40B	51.1B	31.3	20.0	9.49	3.90	3.18	3.94B	3.54B	11
12	5.55B	5.20B	4.70B	4.40B	51.5B	31.7	19.7	9.02	3.58	3.64	3.92B	3.52B	12
13	5.55B	5.20B	4.70B	4.35B	52.1	32.5	19.5	8.74	3.54	4.08	3.90B	3.52B	13
14	5.50B	5.10B	4.60B	4.30B	51.2	33.3	19.2	8.74	3.40	4.73	3.90B	3.52B	14
15	5.50B	5.10B	4.60B	4.25B	50.3	33.9	18.6	8.66	3.26	4.93	3.87B	3.50B	15
16	5.50B	5.05B	4.60B	4.30B	49.6	34.9	18.1	8.42	3.21	4.95	3.85B	3.50B	16
17	5.50B	5.00B	4.60B	4.45B	48.4	34.9	17.6	7.84	3.32	4.94	3.82B	3.50B	17
18	5.50B	5.00B	4.60B	4.50B	48.0	33.7	16.8	7.37	3.41	4.93	3.80B	3.50B	18
19	5.50B	5.00B	4.55B	4.75B	48.1	32.4	16.0	7.00	3.46	4.96	3.78B	3.48B	19
20	5.50B	5.00B	4.55B	5.00B	48.3	31.3	15.4	6.74	3.40	4.92	3.76B	3.48B	20
21	5.50B	5.00B	4.55B	5.40B	49.5	30.5	14.9	6.60	3.49	4.91	3.76B	3.48B	21
22	5.50B	5.00B	4.55B	5.80B	51.8	29.5	14.5	6.52	3.40	4.67	3.74B	3.48B	22
23	5.50B	5.00B	4.55B	6.40B	53.1	28.7	14.2	6.52	3.30	4.52	3.72B	3.46B	23
24	5.50B	5.00B	4.55B	7.30B	53.4	28.1	13.9	6.40	3.06	4.50B	3.72B	3.46B	24
25	5.45B	5.00B	4.50B	8.25B	52.6	27.6	13.4	6.26	3.02	4.45B	3.70B	3.46B	25
26	5.45B	5.00B	4.50B	11.1 B	51.0	27.2	13.1	6.10	2.99	4.42B	3.68B	3.46B	26
27	5.45B	5.00B	4.50B	19.3 B	48.4	26.7	12.8	5.86	2.95	4.38B	3.68B	3.46B	27
28	5.45B	5.00B	4.50B	23.3 B	45.6	26.1	12.8	5.60	2.91	4.35B	3.66B	3.44B	28
29	5.40B		4.50B	23.5 B	42.8	25.6	12.8	5.39	2.86	4.30B	3.66B	3.44B	29
30	5.40B		4.50B	23.2 B	41.8	25.4	13.1	5.22	2.87	4.26B	3.64B	3.44B	30
31	5.40B		4.50B		41.4		13.5	5.33		4.23B		3.44B	31
TOTAL	171.66	143.30	144.60	222.99	1 312.2	968.8	551.6	268.52	112.59	120.96	116.31	108.94	TOTAL
MEAN	5.54	5.12	4.66	7.43	42.3	32.3	17.8	8.66	3.75	3.90	3.88	3.51	MEAN
MAX	5.90	5.30	4.95	23.5	53.4	40.5	25.3	13.9	5.29	4.96	4.21	3.64	MAX
MIN	5.40	5.00	4.50	4.25	22.0	25.4	12.8	5.22	2.86	2.35	3.64	3.44	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 11.6
MAXIMUM DAILY, 53.4 ON MAY 24
MINIMUM DAILY, 2.35 ON OCT 03
MAXIMUM INSTANTANEOUS,
53.4 AT 15:25 CST ON MAY 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 30 00 N
LONG 099 13 20 W
DRAINAGE AREA, 5 260 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	14 800	JUL	47 700
FEB	12 400	AUG	23 200
MAR	12 500	SEP	9 730
APR	19 300	OCT	10 500
MAY	113 000	NOV	10 000
JUN	83 700	DEC	9 410

TOTAL DISCHARGE, 366 000 dam³

BURNTWOOD RIVER ABOVE MANASAN FALLS - STATION NO. 05TG005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	197.380	197.294	197.371	196.579	196.682	197.326	197.250	196.701	196.382	196.314	196.549	196.514	1
2	197.371	197.300	197.340	196.569	196.690	197.345	197.227	196.695	196.378	196.299	196.577	196.468	2
3	197.356	197.311	197.324	196.563	196.699	197.360	197.186	196.685	196.378	196.314	196.609	196.404	3
4	197.345	197.319	197.299	196.550	196.705	197.372	197.158	196.680	196.374	196.322	196.625	196.357	4
5	197.324	197.336	197.270	196.542	196.717	197.376	197.127	196.680	196.366	196.322	196.640	196.330	5
6	197.318	197.337	197.226	196.544	196.731	197.383	197.094	196.676	196.358	196.321	196.656	196.293	6
7	197.334	197.327	197.187	196.545	196.740	197.392	197.063	196.674	196.361	196.319	196.664	196.262	7
8	197.317	197.336	197.139	196.541	196.752	197.397	197.038	196.657	196.350	196.316	196.678	196.237	8
9	197.323	197.347	197.086	196.537	196.774	197.395	197.014	196.646	196.340	196.316	196.692	196.227	9
10	197.333	197.355	197.032	196.538	196.793	197.400	196.990	196.638	196.339	196.320	196.689	196.209	10
11	197.324	197.364	196.990	196.543	196.817	197.405	196.966	196.629	196.332	196.343	196.665	196.197	11
12	197.305	197.373	196.953	196.544	196.842	197.420	196.944	196.618	196.330	196.346	196.634	196.192	12
13	197.287	197.379	196.923	196.544	196.867	197.421	196.920	196.611	196.339	196.350	196.661	196.188	13
14	197.260	197.377	196.896	196.546	196.901	197.433	196.894	196.598	196.343	196.365	196.649	196.168	14
15	197.275	197.380	196.867	196.548	196.923	197.442	196.870	196.579	196.340	196.361	196.704	196.169	15
16	197.271	197.375	196.844	196.544	196.939	197.441	196.851	196.559	196.341	196.359	196.735	196.148	16
17	197.253	197.376	196.818	196.547	196.967	197.437	196.834	196.535	196.336	196.352	196.753	196.136A	17
18	197.242	197.382	196.794	196.551	196.993	197.432	196.822	196.517	196.339	196.352	196.778	196.118A	18
19	197.260	197.374	196.770	196.539	197.020	197.430	196.807	196.502	196.331	196.349	196.778	196.095A	19
20	197.252	197.376	196.753	196.538	197.050	197.425	196.790	196.490	196.330	196.352	196.770	196.064E	20
21	197.272	197.375	196.733	196.549	197.094	197.431	196.781	196.474	196.330	196.360	196.770	196.050E	21
22	197.296	197.360	196.714	196.564	197.136	197.433	196.770	196.462	196.330	196.363	196.798	196.023E	22
23	197.306	197.367	196.697	196.584	197.169	197.424	196.760	196.455	196.332	196.373	196.799	196.007E	23
24	197.314	197.372	196.692	196.605	197.200	197.401	196.745	196.440	196.328	196.388	196.782	195.996E	24
25	197.317	197.375	196.665	196.610	197.226	197.376	196.736	196.428	196.336	196.407	196.744	195.986E	25
26	197.327	197.381	196.647	196.615	197.249	197.365	196.726	196.417	196.335	196.420	196.701	195.972E	26
27	197.311	197.372	196.638	196.629	197.258	197.341	196.716	196.407	196.326	196.442	196.672	195.964E	27
28	197.304	197.373	196.629	196.638	197.282	197.311	196.714	196.398	196.324	196.458	196.624	195.956E	28
29	197.298		196.620	196.665	197.299	197.291	196.711	196.388	196.325	196.493	196.583	195.949E	29
30	197.298		196.615	196.674	197.316	197.275	196.694	196.380	196.319	196.504	196.550	195.942E	30
31	197.285		196.595		197.328		196.700	196.375		196.527		195.937E	31
MEAN	197.305	197.357	196.908	196.569	196.973	197.389	196.900	196.548	196.342	196.369	196.684	196.147	MEAN
MAX	197.380	197.382	197.371	196.674	197.328	197.442	197.250	196.701	196.382	196.527	196.799	196.514	MAX
MIN	197.242	197.294	196.595	196.537	196.682	197.275	196.694	196.375	196.319	196.299	196.549	195.937	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 196.787
MAXIMUM DAILY, 197.442 ON JUN 15
MINIMUM DAILY, 195.937E ON DEC 31
MAXIMUM INSTANTANEOUS, 197.461 AT 16:55 CST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 42 51 N
LONG 097 56 53 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1976

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	966B	976B	935B	715B	729B	1 050	1 050	772	700	684	730	708B	
2	966B	977B	924B	714B	733B	1 060	1 030	770	700	687	739	704B	
3	966B	978B	914B	713B	737B	1 060	1 020	765	698	690	750	702B	
4	966B	979B	902B	712B	744B	1 070	1 000	763	695	688	753	701B	
5	967B	981B	892B	711B	749B	1 080	984	762	693	685	763	700B	
6	967B	982B	882B	710B	760B	1 080	966	761	693	683	769B	699B	
7	967B	984B	873B	709B	775B	1 090	951	759	689	683	771B	697B	
8	967B	985B	859B	709B	788B	1 090	940	757	688	685	772B	692B	
9	967B	986B	851B	708B	802B	1 090	930	755	687	685	773B	684B	1
10	967B	987B	844B	708B	812B	1 090	915	752	687	687	773B	674B	1
11	967B	989B	836B	708B	823B	1 100	903	749	691	689	772B	666B	1
12	967B	990B	826B	708B	834B	1 110	885	746	689	689	772B	656B	1
13	968B	991B	816B	708B	842	1 120	871	744	690	695	771B	649B	1
14	968B	992B	810B	708B	846	1 120	859	742	690	693	770B	646B	1
15	968B	994B	801B	708B	854	1 130	846	736	691	690	769B	645B	1
16	968B	995B	793B	708B	869	1 130	836	732	690	690	767B	644B	1
17	968B	996B	785B	708B	878	1 130	830	729	688	692	764B	642B	1
18	968B	996B	776B	709B	882	1 130	822	726	684	694	761B	641B	1
19	968B	996B	766B	709B	888	1 130	817	722	684	696	758B	640B	1
20	968B	996B	760B	710B	901	1 130	812	718	686	698	754B	638B	1
21	969B	996B	754B	711B	918	1 130	806	715	688	696	750B	637B	1
22	969B	996B	747B	712B	935	1 130	803	713	688	698	745B	635B	1
23	970B	995B	742B	713B	952	1 130	798	713	687	699	740B	634B	1
24	970B	992B	737B	714B	967	1 130	794	713	688	700	736B	633B	1
25	971B	986B	732B	716B	982	1 120	790	710	689	701	732B	632B	1
26	971B	976B	728B	718B	992	1 110	787	707	686	703	728B	631B	1
27	972B	965B	724B	719B	1 000	1 100	783	705	686	703	724B	630B	1
28	972B	956B	722B	720B	1 010	1 090	779	702	687	706	720B	630B	1
29	972B		720B	722B	1 020	1 070	772	701	686	708	716B	629B	1
30	973B		718B	725B	1 030	1 060	769	701	685	713	711B	629B	1
31	974B		716B		1 040		772	705		723		628B	
TOTAL	975B												
	30 030	27 612	24 885	21 363	27 092	33 060	26 920	22 747	20 683	21 533	22 553	20 376	T
MEAN	969	986	803	712	874	1 100	868	734	689	695	752	657	M
MAX	975	996	935	725	1 040	1 130	1 050	772	700	723	773	708	M
MIN	966	956	716	708	729	1 050	769	701	684	683	711	628	M

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 819
MAXIMUM DAILY, 1 130 ON JUN 15
MINIMUM DAILY, 628B ON DEC 31
MAXIMUM INSTANTANEOUS, 1 140 AT 17:01 CST ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 44 40 N
LONG 097 53 30 W

DRAINAGE AREA, 18 500 km²

B - ICE CONDITIONS

REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 590 000	JUL	2 330 000
FEB	2 390 000	AUG	1 970 000
MAR	2 150 000	SEP	1 790 000
APR	1 850 000	OCT	1 860 000
MAY	2 340 000	NOV	1 950 000
JUN	2 860 000	DEC	1 760 000

TOTAL DISCHARGE, 25 800 000 dam

BURROWS RESERVOIR NEAR MERRIDALE - STATION NO. 05LJ811

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	624.800	624.781E	624.633	624.307	625.148	625.224	624.788	624.745	624.529	624.322	624.179	624.032	1
2	624.806	624.780E	624.627	624.282	625.166	625.194	624.788	624.745	624.517	624.316	624.176	624.029	2
3	624.880	624.779E	624.617	624.264	625.181	625.151	624.803	624.736	624.523	624.319	624.169	624.023	3
4	624.874	624.778E	624.611	624.249	625.184	625.111	624.813	624.715	624.517	624.316	624.157	624.023	4
5	624.871	624.777E	624.602	624.237	625.197	625.093	624.810	624.703	624.511	624.304	624.154	624.020	5
6	624.867	624.776	624.596	624.218	625.194	625.059	624.813	624.688	624.508	624.304	624.148	624.014	6
7	624.861	624.773	624.581	624.206	625.187	625.032	624.827	624.662	624.499	624.294	624.142	624.011	7
8	624.858	624.767	624.569	624.200	625.184	625.005	624.837	624.662	624.493	624.288	624.139	624.008	8
9	624.855	624.761	624.560	624.185	625.163	624.977	624.837	624.654	624.486	624.282	624.136	624.005	9
10	624.852	624.752	624.550	624.172	625.145	624.938	624.834	624.639	624.474	624.279	624.127	624.002	10
11	624.846	624.745	624.541	624.157	625.127	624.910	624.837	624.630	624.474	624.285	624.121	623.999	11
12	624.837	624.739	624.535	624.145	625.105	624.883	624.834	624.617	624.459	624.264	624.112	623.996	12
13	624.834	624.730	624.525	624.136	625.084	624.855	624.825	624.611	624.465	624.267	624.102	623.999	13
14	624.834	624.724	624.532	624.127	625.069	624.831	624.831	624.605	624.450	624.261	624.099	623.996	14
15	624.834	624.721	624.529	624.118	625.050	624.797	624.825	624.599	624.444	624.249	624.093	623.990	15
16	624.825	624.715	624.517	624.112	625.084	624.770	624.819	624.593	624.425	624.243	624.087	623.987	16
17	624.822	624.709	624.508	624.096	625.096	624.739	624.816	624.584	624.416	624.237	624.081	623.984	17
18	624.816	624.700	624.496	624.087	625.096	624.712	624.816	624.575	624.419	624.227	624.078	623.977	18
19	624.810	624.694	624.486	624.087	625.117	624.688	624.813	624.566	624.404	624.224	624.075	623.971	19
20	624.803	624.685	624.483	624.105	625.151	624.709	624.806	624.560	624.401	624.224	624.069	623.968	20
21	624.801E	624.682	624.480	624.151	625.187	624.733	624.797	624.550	624.401	624.218	624.069	623.962	21
22	624.799E	624.678	624.471	624.212	625.239	624.745	624.791	624.547	624.392	624.215	624.072	623.953	22
23	624.798E	624.675	624.465	624.316	625.285	624.745	624.782	624.550	624.383	624.215	624.069	623.950	23
24	624.796E	624.672	624.456	624.432	625.311	624.749	624.779	624.544	624.380	624.203	624.066	623.947	24
25	624.794E	624.669	624.444	624.578	625.355	624.755	624.770	624.544	624.374	624.200	624.063	623.944	25
26	624.792E	624.663	624.432	624.727	625.361	624.749	624.764	624.538	624.368	624.206	624.060	623.938	26
27	624.790E	624.657	624.419	624.855	625.355	624.749	624.770	624.554	624.355	624.200	624.054	623.935	27
28	624.788E	624.639	624.398	624.971	625.337	624.767	624.779	624.554	624.343	624.182	624.051	623.938	28
29	624.786E		624.374	625.063	625.312	624.785	624.773	624.550	624.331	624.185	624.044	623.932	29
30	624.784E		624.346	625.117	625.282	624.788	624.761	624.544	624.334	624.182	624.038	623.926	30
31	624.782E		624.325		625.252		624.752	624.541		624.176		623.919	31
MEAN	624.828	624.722	624.507	624.330	625.194	624.875	624.803	624.610	624.436	624.248	624.101	623.980	MEAN
MAX	624.886	624.781	624.633	625.117	625.361	625.224	624.837	624.745	624.529	624.322	624.179	624.032	MAX
MIN	624.782	624.639	624.325	624.087	625.050	624.688	624.752	624.538	624.331	624.176	624.038	623.919	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 624.553
MAXIMUM DAILY, 625.361 ON MAY 26
MINIMUM DAILY, 623.919 ON DEC 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 23 51 N
LONG 101 02 05 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1954
DRAINAGE AREA,
528 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

REMARKS - PRIOR TO 1988 PUBLISHED AS "UPPER GRANDVIEW RESERVIOR"

CADDY LAKE AT CADDY LAKE (CAMPGROUND) - STATION NO. 05PG806

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	318.456	319.132	318.412	318.160	---	---	---	1
2	---	---	---	---	---	318.616	319.092	318.401	318.160	---	318.175	---	2
3	---	---	---	---	---	318.911	319.070	318.389	---	---	---	---	3
4	---	---	---	---	---	319.027	319.050	318.376	---	---	---	---	4
5	---	---	---	---	---	319.058E	319.012	318.371	---	318.155	---	---	5
6	---	---	---	---	---	319.090E	319.012	318.351	---	---	---	---	6
7	---	---	318.326	---	---	319.121	319.002	318.331E	---	---	---	---	7
8	---	---	---	---	---	319.121	318.942	318.311E	---	---	---	---	8
9	---	---	---	318.321	---	319.121	318.922	318.291	---	---	---	---	9
10	---	---	---	---	---	319.116	318.890	318.271	---	318.137	---	---	10
11	---	---	---	---	---	319.096	318.862	318.261	---	---	---	---	11
12	---	---	---	---	318.411	319.132	318.832	318.241	---	---	---	---	12
13	---	---	---	---	318.409E	319.132	318.802	318.220	---	---	---	---	13
14	---	---	---	---	318.406	319.112	318.772	318.217E	---	---	---	---	14
15	---	---	---	---	318.402E	319.102	318.752	318.213E	---	---	---	---	15
16	---	---	---	---	318.399E	319.072	318.712	318.210	---	---	---	---	16
17	---	---	---	---	318.395	319.042	318.662	318.210	---	---	---	---	17
18	---	---	---	318.270	318.423E	319.012	318.632	318.200	---	---	---	---	18
19	---	---	---	---	318.450	319.065E	318.622	318.200	318.154	---	---	---	19
20	---	---	---	---	318.453E	319.119E	318.612	318.180	---	---	---	---	20
21	---	---	---	---	318.456	319.172	318.612	318.178E	---	---	---	---	21
22	---	---	---	---	318.461E	319.247	318.602	318.177E	---	---	---	---	22
23	---	---	---	---	318.466E	319.272	318.591	318.175	---	---	---	---	23
24	---	---	---	---	318.471	319.292	318.563	318.176	---	---	---	---	24
25	---	---	---	318.365	---	319.280	318.539	318.170	---	---	---	---	25
26	---	---	---	---	---	319.277	318.521	318.175	---	---	---	---	26
27	---	---	---	---	---	319.255E	318.501	318.160	---	---	---	---	27
28	---	---	---	---	---	319.232	318.491	318.160E	---	---	---	---	28
29	---		---	---	318.421	319.222	318.465	318.160E	---	---	---	---	29
30	---		---	---	318.434E	319.167	318.441	318.160	---	---	---	---	30
31	---		---		318.446		318.421	318.160		---		---	31
MEAN	---	---	---	---	---	319.098	318.746	318.242	---	---	---	---	MEAN
MAX	---	---	---	---	---	319.292	319.132	318.412	---	---	---	---	MAX
MIN	---	---	---	---	---	318.456	318.421	318.160	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 319.292 ON JUN 24

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 48 35 N
LONG 095 13 07 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
198 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

CEDAR LAKE NEAR OLESON POINT - STATION NO. 05KL005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	D
1	254.510	254.521	254.086	254.134	254.788	255.631	256.089	256.378	256.171	255.836	255.296	255.310	
2	254.507	254.481	254.093	254.150	254.819	255.630	256.109	256.386	256.142	255.800	255.290	255.312	
3	254.509	254.439	254.105	254.152	254.849	255.661	256.095	256.396	256.141	255.730	255.287	255.306	
4	254.506	254.399	254.115	254.156	254.875	255.655	256.093	256.384	256.134	255.743	255.311	255.289	
5	254.508	254.388	254.121	254.165	254.918	255.693	256.130	256.381	256.112	255.713	255.263	255.276	
6	254.518	254.389	254.122	254.177	254.960	255.740	256.141	256.378	256.094	255.690	255.253	255.277	
7	254.517	254.382	254.130	254.183	254.996	255.739	256.153	256.381	256.062	255.655	255.203	255.283	
8	254.522	254.379	254.135	254.184	255.049	255.762	256.190	256.388	256.064	255.624	255.267	255.287	
9	254.524	254.375	254.120	254.171	255.089	255.786	256.206	256.375	256.043	255.595	255.209	255.295	
10	254.532	254.383	254.116	254.152	255.123	255.790	256.198	256.358	256.019	255.575	255.242	255.289	1
11	254.536	254.393	254.128	254.137	255.149	255.809	256.215	256.354	256.005	255.572	255.262	255.295	1
12	254.540	254.396	254.137	254.124	255.175	255.843	256.224	256.343	255.980	255.574	255.276	255.297	1
13	254.544	254.392	254.150	254.111	255.208	255.860	256.223	256.333	255.946	255.513	255.284	255.297	1
14	254.545	254.371	254.165	254.105	255.243	255.855	256.246	256.348	255.939	255.502	255.285	255.289	1
15	254.553	254.335	254.183	254.099	255.276	255.865	256.257	256.323	255.938	255.490	255.290	255.285	1
16	254.558	254.300	254.217	254.100	255.300	255.872	256.258	256.314	255.922	255.474	255.293	255.285	1
17	254.558	254.263	254.225	254.103	255.326	255.890	256.271	256.318	255.910	255.453	255.295	255.284	1
18	254.558	254.220	254.243	254.125	255.349	255.900	256.287	256.301	255.949	255.435	255.300	255.273	1
19	254.565	254.180	254.259	254.151	255.369	255.907	256.295	256.287	255.949	255.395	255.302	255.248	1
20	254.570	254.143	254.264	254.182	255.396	255.918	256.297	256.287	255.937	255.398	255.306	255.222	2
21	254.578	254.117	254.272	254.219	255.425	255.924	256.312	256.283	255.943	255.400	255.318	255.195	2
22	254.582	254.113	254.258	254.262	255.448	255.923	256.327	256.270	255.940	255.385	255.324	255.169	2
23	254.587	254.115	254.241	254.326	255.473	255.920	256.338	256.270	255.919	255.355	255.314	255.144	2
24	254.591	254.117	254.214	254.373	255.489	255.952	256.334	256.273	255.946	255.327	255.342	255.111	2
25	254.598	254.123	254.180	254.434	255.512	255.992	256.354	256.263	255.951	255.329	255.349	255.090	2
26	254.607	254.106	254.155	254.495	255.538	255.993	256.352	256.243	255.945	255.319	255.349	255.080	2
27	254.598	254.088	254.135	254.551	255.565	256.005	256.346	256.227	255.932	255.337	255.335	255.069	2
28	254.603	254.090	254.120	254.621	255.543	256.037	256.370	256.229	255.899	255.345	255.330	255.043	2
29	254.606		254.119	254.692	255.571	256.057	256.391	256.218	255.865	255.326	255.329	255.025	2
30	254.594		254.123	254.741	255.601	256.078	256.384	256.204	255.843	255.334	255.323	255.004A	3
31	254.567		254.128		255.617		256.389	256.174		255.305		254.974E	3
MEAN	254.555	254.286	254.163	254.252	255.259	255.856	256.255	256.312	255.989	255.502	255.298	255.213	ME
MAX	254.607	254.521	254.272	254.741	255.617	256.078	256.391	256.396	256.171	255.836	255.349	255.312	MA
MIN	254.506	254.088	254.086	254.099	254.788	255.630	256.089	256.174	255.843	255.305	255.209	254.974	MI

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 255.252
MAXIMUM DAILY, 256.396 ON AUG 03
MINIMUM DAILY, 254.086 ON MAR 01
MAXIMUM INSTANTANEOUS,
256.451 AT 15:33 CST ON JUL 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 19 33 N
LONG 100 16 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
36 400 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1971 ADJ.)

CHILDS LAKE NEAR BOGGY CREEK - STATION NO. 05MD008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	D
1	---	---	---	---	1.592	1.718	1.732	1.693	1.627	1.526	---	---	
2	---	---	---	---	1.592	1.729	1.733	1.691	1.623	1.525	---	---	
3	---	---	---	---	1.595	1.722	1.740	1.684	1.620	1.518	---	---	
4	---	---	---	---	1.602	1.720	1.738	1.680	1.616	1.514	---	---	
5	---	---	---	---	1.607	1.729	1.732	1.677	1.610	1.515	---	---	
6	---	---	1.468A	---	1.604	1.731	1.735	1.675	1.612	1.512	---	---	
7	---	---	---	---	1.602	1.734	1.738	1.670	1.605	1.508	---	---	
8	---	---	---	---	1.608	1.735	1.743	1.666	1.604	1.508	---	---	
9	---	---	---	---	1.613	1.735	1.743	1.664	1.600	1.510	---	---	
10	---	---	---	---	1.614	1.738	1.740	1.657	1.596	1.512	---	---	1
11	---	---	---	---	1.614	1.740	1.746	1.654	1.594	1.508	---	---	1
12	---	---	---	---	1.616	1.741	1.742	1.650	1.592	1.505	---	---	1
13	---	---	---	---	1.617	1.739	1.733	1.644	1.586	1.502	---	---	1
14	---	---	---	---	1.617	1.740	1.732	1.640	1.580	1.500	---	---	1
15	---	---	---	---	1.619	1.733	1.728	1.639	1.576	1.497	---	---	1
16	---	---	---	---	1.647	1.731	1.725	1.637	1.574	1.496	---	---	1
17	---	---	---	---	1.657	1.732	1.724	1.629	1.569	1.494	---	---	1
18	---	---	---	1.498A	1.655	1.736	1.722	1.624	1.565	1.491	---	---	1
19	---	---	---	1.488	1.663	1.737	1.717	1.618	1.561	1.493	---	---	1
20	---	---	---	1.487	1.669	1.741	1.714	1.616	1.561	1.496	---	---	2
21	---	---	---	1.490	1.673	1.741	1.714	1.614	1.560	1.497	---	---	2
22	---	---	---	1.504A	1.689	1.742	1.709	1.624	1.554	1.498	---	---	2
23	---	---	---	1.564A	1.695	1.738	1.707	1.627	1.548	1.497	---	---	2
24	---	---	---	1.586	1.702	1.735	1.704	1.632	1.545	1.498	---	---	2
25	---	---	---	1.595	1.705	1.735	1.704	1.638	1.544	1.497	---	---	2
26	---	---	---	1.597	1.710	1.735	1.699	1.632	1.540	1.495	---	---	2
27	---	---	---	1.597	1.712	1.734	1.704	1.645	1.537	1.492	---	---	2
28	---	---	---	1.596	1.716	1.741	1.710	1.642	1.537	1.489	---	---	2
29	---		---	1.595	1.716	1.740	1.706	1.637	1.533	1.487	---	---	2
30	---		---	1.592	1.713	1.740	1.698	1.636	1.529	1.489A	---	---	3
31	---		---		1.713		1.694	1.630		1.488E		---	3
MEAN	---	---	---	---	1.650	1.735	1.723	1.647	1.577	1.502	---	---	ME
MAX	---	---	---	---	1.716	1.742	1.746	1.693	1.627	1.526	---	---	MA
MIN	---	---	---	---	1.592	1.718	1.694	1.614	1.529	1.487	---	---	MI

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 1.746 ON JUL 11

MAXIMUM INSTANTANEOUS,
1.750 AT 11:58 CST ON JUL 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 34 37 N
LONG 101 01 54 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
67.6 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	703E	739	814	699	611	580	535	498	485A	1
2	---	---	---	704E	741	811	691	611	581	530	494	488E	2
3	---	---	---	704E	742	811	681	606	581	535	493	490E	3
4	---	---	---	704E	743	812	677	606	580	532	493	489E	4
5	---	---	---	703E	744	811	673	609	577	527	494	492E	5
6	---	---	---	703E	745	805	669	611	571	524	494	494E	6
7	---	---	---	702E	747	801	664	610	574	525	493	496E	7
8	---	---	---	702E	750	799	658	604	558	525	494	496E	8
9	---	---	---	701A	756	792	653	601	560	528	491	499E	9
10	---	---	---	702	759	792	651	601	560	528	489	500E	10
11	---	---	---	702	763	787	649	599	556	524	487	502E	11
12	---	---	---	701	768	783	648	600	554	524	486	504E	12
13	---	---	---	700	772	775	644	599	556	525	485	507E	13
14	---	---	---	698	777	775	636	595	554	526	485	507E	14
15	---	---	---	699	781	778	630	593	550	528	484	507E	15
16	---	---	---	698	784	774	627	591	552	526	481	510E	16
17	---	---	---	698	788	769	623	589	553	525	482	512E	17
18	---	---	---	698	795	765	621	589	547	526	480	514E	18
19	---	---	---	695	800	757	617	592	540	524	478	516E	19
20	---	---	---	695	804	751	614	593	541	522	476	517E	20
21	---	---	---	696	808	742	614	593	542	522	477	518E	21
22	---	---	---	697	812	738	613	593	543	520	479	521E	22
23	---	---	---	700	816	737	612	591	544	520	480	524E	23
24	---	---	---	704	819	730	610	588	544	519	479	526E	24
25	---	---	---	708	822	723	609	582	544	518	478	528E	25
26	---	---	---	712	824	721	609	580	540	513	478A	529E	26
27	---	---	---	719	823	716	612	580	535	508	480	530E	27
28	---	---	---	722	824	711	610	579	535	508	480	532E	28
29	---	---	---	731	826	709	606	578	540	506	482	534E	29
30	---		---	736	826	705	606	576	540	502	485	536E	30
31	---		---		824		610	577		501		538E	31
TOTAL	---	---	---	21 137	24 322	22 994	19 736	18 427	16 632	16 176	14 555	15 841	TOTAL
MEAN	---	---	---	705	785	766	637	594	554	522	485	511	MEAN
MAX	---	---	---	736	826	814	699	611	581	535	498	538	MAX
MIN	---	---	---	695	739	705	606	576	535	501	476	485	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 826 ON MAY 29

MAXIMUM INSTANTANEOUS,
832 AT 19:20 CST ON MAY 29

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 09 00 N
LONG 100 27 30 W
DRAINAGE AREA, 230 000 km²
A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1928

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 710 000
FEB	---	AUG	1 590 000
MAR	---	SEP	1 440 000
APR	1 830 000	OCT	1 400 000
MAY	2 100 000	NOV	1 260 000
JUN	1 990 000	DEC	1 370 000

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06EB004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	776	785	764	747	787	935	882	744	686	609	593	596	1
2	776	783	762	748	790	943	882	746	685	599	593	594	2
3	776	784	758	751	793	947	865	742	685	607	593	593	3
4	777	786	756	751	798	948	866	736	684	613	591	593	4
5	777	785	755	751	803	948	865	733	679	613	592	595	5
6	776	784	754	750	805	946	860	730	673	610	593	595	6
7	777	785	753	752	808	946	855	729	675	606	591	595	7
8	777	786	750	753	814	947	849	728	664	605	591	597	8
9	779	789	753	754	822	940	846	723	659	603	591	598	9
10	778	789	754	755	828	940	842	721	656	601	591	598	10
11	781	788	750	756	834	935	838	718	649	601	590	598	11
12	779	788	750	755	839	936	837	716	645	600	588	600	12
13	777	788	750	754	845	939	828	717	648	596	587	601	13
14	779	786	748	755	852	944	823	713	649	602	589	601	14
15	781	785	746	757	858	946	817	710	644	603	589	602	15
16	781	784	747	758	863	937	810	705	643	600	587	603	16
17	781	782	748	757	869	931	802	699	640	595	588	604	17
18	781	782	746	757	874	930	799	696	644	594	588	606	18
19	780	778	745	757	883	926	789	696	632	591	586	608	19
20	778	778	744	757	890	920	781	695	626	595	586	609	20
21	782	779	743	759	898	912	780	693	626	595	586	610	21
22	784	776	744	759	905	911	769	690	627	593	591	612	22
23	783	774	745	762	911	911	763	692	623	595	592	615	23
24	785	772	745	765	918	901	760	692	622	598	591	616	24
25	784	769	744	763	922	893	757	688	623	599	591	618	25
26	787	771	743	765	927	893	753	684	621	598	590	618	26
27	791	769	742	767	931	888	750	684	616	601	590	619	27
28	787	766	743	767	932	886	757	681	614	593	590	623	28
29	787		743	777	938	885	758	678	614	600	589	625	29
30	788		746	783	940	884	746	674	613	594	594	625	30
31	787		746		939		745	679		593		628	31
TOTAL	24 212	21 871	23 217	22 742	26 806	27 748	25 074	21 932	19 365	18 602	17 701	18 795	TOTAL
MEAN	781	781	749	758	865	925	809	707	646	600	590	606	MEAN
MAX	791	789	764	783	940	948	882	746	686	613	594	628	MAX
MIN	776	766	742	747	787	884	745	674	613	591	586	593	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 734
MAXIMUM DAILY, 948 ON JUN 04
MINIMUM DAILY, 586 ON NOV 19
MAXIMUM INSTANTANEOUS,
956 AT 15:30 CST ON JUN 15

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 29 37 N
LONG 100 02 55 W
DRAINAGE AREA, 244 000 km²

REGULATED SINCE 1928

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 090 000	JUL	2 170 000
FEB	1 890 000	AUG	1 890 000
MAR	2 010 000	SEP	1 670 000
APR	1 960 000	OCT	1 610 000
MAY	2 320 000	NOV	1 530 000
JUN	2 400 000	DEC	1 620 000

TOTAL DISCHARGE, 23 200 000 dam³

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	D
1	135B	121 B	96.9B	74.0B	68.8B	223E	451	217	150	155E	235	319B	
2	135B	120 B	96.5B	73.3B	68.7B	255E	455	216	153	155E	252	312B	
3	135B	120 B	96.3B	72.7B	68.6B	325E	471	224	153	154A	282	308B	
4	134B	120 B	95.6B	72.2B	68.6B	425E	471	236	154	159A	260	301B	
5	134B	119 B	95.0B	71.7B	68.5B	509A	456	238	158	159A	261B	290B	
6	133B	119 B	94.6B	71.4B	68.4B	488	441	231	160	163A	262B	275B	
7	133B	119 B	93.8B	71.3B	68.3B	471	423	227	162A	160E	267B	260B	
8	133B	118 B	93.5B	71.1B	68.3B	458	403	219	165	158E	272B	240B	
9	132B	118 B	93.4B	70.9B	68.1B	437	385	206	168	155E	278B	228B	
10	132B	117 B	93.1B	70.8B	68.0B	423	370	198	169	158E	282B	216B	1
11	131B	116 B	92.5B	70.6B	68.1B	404	356	188	164	163E	290B	207B	1
12	131B	115 B	92.5B	70.4B	68.2B	419	341	182	162	164E	297B	202B	1
13	130B	114 B	92.0B	70.3B	68.3B	496	324	176	161	166A	304B	196B	1
14	130B	113 B	91.4B	70.1B	68.3B	653	310	169	160	166A	308B	192B	1
15	129B	111 B	90.0B	70.0B	68.4B	732	293	168A	160	165E	312B	189B	1
16	129B	109 B	88.8B	69.9B	68.6B	742	283	173A	160	163E	317B	185B	1
17	127B	107 B	87.5B	69.8B	68.6B	724	265	169	163	161E	321B	181B	1
18	126B	105 B	86.3B	69.7B	68.8B	695	259	168	162	161E	326B	179B	1
19	126B	104 B	85.0B	69.6B	68.9B	674	254	163	161	161A	328B	175B	1
20	125B	103 B	83.0B	69.5B	69.2B	654	242	159	165	161A	331B	173B	1
21	124B	102 B	82.0B	69.5B	69.5B	627	238	155	165	163A	332B	171B	2
22	124B	101 B	81.2B	69.4B	70.0B	606	233	152	160	165E	334B	168B	2
23	124B	100 B	80.7B	69.3B	71.7B	591	227	156A	157	170A	335B	165B	2
24	124B	100 B	80.0B	69.2B	77.0B	579	232	153	156	169A	335B	164B	2
25	124B	99.6B	79.0B	69.2B	80.0E	574	224	154	159A	180A	334B	162B	2
26	123B	98.8B	78.5B	69.1B	94.0E	557	215	158	156	164	332B	161B	2
27	123B	98.1B	77.5B	69.1B	113 E	537	208	161	155	172	331B	160B	2
28	123B	97.5B	76.5B	69.0B	130 E	513	210	161	157	151	329B	159B	2
29	122B		76.0B	68.9B	147 E	486	212	161	157	162	326B	158B	2
30	122B		75.0B	68.9B	170 E	465	231	162	156	171	322B	156B	2
31	121B		74.8B		195 E		229	156		175		155B	1
TOTAL	3 974	3 085.0	2 698.9	2 110.9	2 586.9	15 742	9 712	5 656	4 788	5 049	9 095	6 407	TO
MEAN	128	110	87.1	70.4	83.4	525	313	182	160	163	303	207	ME
MAX	135	121	96.9	74.0	195	742	471	238	169	180	332	319	MA
MIN	121	97.5	74.8	68.9	68.0	223	208	152	150	151	235	155	MI

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 194
MAXIMUM DAILY, 742 ON JUN 16
MINIMUM DAILY, 68.0B ON MAY 10
MAXIMUM INSTANTANEOUS,
745 AT 18:30 CST ON JUN 15

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 07 15 N
LONG 094 37 30 W
DRAINAGE AREA, 287 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1928

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	343 000	JUL	839 000
FEB	267 000	AUG	489 000
MAR	233 000	SEP	414 000
APR	182 000	OCT	436 000
MAY	224 000	NOV	786 000
JUN	1 360 000	DEC	554 000

TOTAL DISCHARGE, 6 130 000 dam³

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 06FB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	94.0B	84.3B	68.3B	55.8B	52.7B	138	204	111	79.7	69.0	226	233B	
2	93.3B	84.1B	68.1B	55.7B	52.6B	146	204	114	79.5	69.2	235	227B	
3	92.5B	84.0B	68.0B	55.6B	52.6B	150	202	115	78.1	68.4	235	220B	
4	91.8B	83.9B	67.9B	55.5B	52.5B	151	198	117	77.2	68.9	236	214B	
5	91.0B	83.7B	67.7B	55.4B	52.4B	150	195	116	76.1	72.2	234	209B	
6	90.6B	83.4B	67.6B	55.5B	52.3B	149	191	115	75.1	72.9	234B	204B	
7	90.0B	83.2B	67.4B	55.5B	52.8B	152	185	113	74.9	70.1	236B	200B	
8	89.5B	82.8B	67.2B	55.4B	53.2B	152	180	109	72.4	68.1	237B	196B	
9	89.0B	82.2B	67.0B	55.1B	53.7B	148	176	107	73.6	67.0	240B	192B	
10	88.5B	81.8B	66.8B	55.0B	54.3B	148	172	105	73.2	67.5	243B	188B	
11	88.0B	81.0B	66.7B	54.7B	55.1B	144	165	102	71.4	71.6	245B	185B	
12	87.8B	80.0B	66.6B	54.6B	55.8B	154	160	98.8	71.6	71.9	247B	182B	
13	87.6B	79.1B	66.5B	54.5B	60.2B	179	154	98.5	70.9	71.7	249B	180B	
14	87.4B	77.6B	65.7B	54.3B	67.6B	203	148	98.5	71.3	72.5	251B	177B	
15	87.2B	75.4B	65.3B	54.3B	74.7B	214	143	99.3	73.0	73.4	253B	175B	
16	87.0B	74.2B	64.8B	54.2B	75.3B	226	139	95.3	74.2	74.2	254B	172B	
17	86.9B	73.2B	63.9B	54.1B	75.6B	236	135	93.5	73.6	73.5	255B	169B	
18	86.7B	72.3B	63.2B	54.0B	76.1B	243	132	91.2	72.8	72.7	256B	168B	
19	86.5B	71.6B	62.0B	53.9B	78.1B	251	128	88.5	72.4	72.3	255B	166B	
20	86.2B	70.9B	60.4B	53.7B	91.4	257	125	86.3	73.2	72.4	254B	164B	
21	86.1B	70.4B	58.9B	53.6B	105	260	122	85.4	71.5	74.5	253B	162B	
22	86.0B	69.9B	57.6B	53.6B	114	260	120	83.5	70.5	76.6	252B	161B	
23	85.9B	69.6B	56.7B	53.5B	120	258	117	86.8	70.4	79.9	252B	160B	
24	85.7B	69.4B	56.4B	53.3B	123	250	113	87.8	69.5	84.9	251B	159B	
25	85.5B	69.2B	56.2B	53.2B	126	245	112	87.4	71.4	94.5	250B	158B	
26	85.4B	69.0B	56.1B	53.1B	130	240	109	85.4	71.6	108	248B	158B	
27	85.2B	68.9B	56.0B	53.0B	131	234	106	83.4	71.2	127	246B	157B	
28	85.1B	68.7B	56.0B	52.9B	132	226	105	81.7	72.2	149	244B	156B	
29	84.9B		55.9B	52.9B	134	218	107	80.2	71.9	175	242B	156B	
30	84.8B		55.9B	52.8B	135	211	110	78.9	70.2	193	239B	155B	
31	84.5B		55.8B		135		108	77.3		201		155B	
TOTAL	2 720.6	2 143.8	1 942.6	1 628.7	2 624.0	5 993	4 565	2 991.7	2 194.6	2 782.9	7 352	5 558	T
MEAN	87.8	76.6	62.7	54.3	84.6	200	147	96.5	73.2	89.8	245	179	M
MAX	94.0	84.3	68.3	55.8	135	260	204	117	79.7	201	256	233	M
MIN	84.5	68.7	55.8	52.8	52.3	138	105	77.3	69.5	67.0	226	155	M

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 116
MAXIMUM DAILY, 260 ON JUN 21
MINIMUM DAILY, 52.3B ON MAY 06

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 15 00 N
LONG 096 47 50 W
DRAINAGE AREA, 271 000 km²
B - ICE CONDITIONS
REGULATED SINCE 1928

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	235 000	JUL	394 000
FEB	185 000	AUG	258 000
MAR	168 000	SEP	190 000
APR	141 000	OCT	240 000
MAY	227 000	NOV	635 000
JUN	518 000	DEC	480 000

TOTAL DISCHARGE, 3 670 000 dam³

CLEARWATER LAKE AT GUY HILL - STATION NO. 05KK009

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	259.789	259.822	259.836	259.839	259.874	259.951	259.981	---	---	259.738	---	---	1
2	259.786	259.826	259.835	259.839	259.876	259.949	259.982	---	---	259.733	---	---	2
3	259.788	259.827	259.838	259.836	259.877	259.946	259.991	---	---	259.721	---	---	3
4	259.787	259.825	259.839	259.836	259.878	259.949	259.985	---	---	259.727	---	---	4
5	259.788	259.826	259.837	259.833	259.880	259.951	259.979	---	259.822A	259.721	---	---	5
6	259.792	259.825	259.837	259.832	259.883	259.951	259.974	---	---	259.712	---	---	6
7	259.792	259.827	259.836	259.831	259.889	259.952	259.976	---	---	259.706	---	---	7
8	259.792	259.827	259.836	259.832	259.894	259.952	259.979	---	---	259.701	---	---	8
9	259.791	259.827	259.838	259.831	259.896	259.955	259.980	---	---	259.695	---	---	9
10	259.793	259.829	259.840	259.830	259.898	259.954	259.976	---	259.792A	259.694	---	259.668A	10
11	259.794	259.830	259.842	259.830	259.900	259.967	259.974	---	---	259.704	---	259.678A	11
12	259.796	259.839	259.840	259.830	259.901	259.975	259.972	---	---	259.702	---	259.679	12
13	259.795	259.841	259.839	259.829	259.904	259.982	259.968	259.885A	---	259.703	---	259.680	13
14	259.795	259.842	259.839	259.828	259.906	259.979	259.968	---	---	259.703	---	259.681	14
15	259.794	259.843	259.839	259.829	259.909	259.975	259.965	---	---	259.699A	---	259.682	15
16	259.794	259.842	259.836	259.828	259.913	259.976	259.960A	---	---	---	---	259.682	16
17	259.793	259.843	259.835	259.830	259.913	259.975	259.967A	---	259.764A	---	---	259.684	17
18	259.796	259.841	259.834	259.830	259.914	259.976	---	---	---	---	---	259.684	18
19	259.797	259.843	259.835	259.829	259.916	259.975	---	---	---	---	---	259.684	19
20	259.799	259.841	259.835	259.832	259.924	259.976	---	259.869A	---	---	---	259.684	20
21	259.798	259.839	259.837	259.831	259.928	259.978	---	---	---	---	---	259.686	21
22	259.802	259.842	259.837	259.834	259.930	259.977	---	---	---	---	---	259.686	22
23	259.805	259.840	259.836	259.832	259.933	259.973	---	---	---	---	---	259.684	23
24	259.805	259.839	259.835	259.834	259.935	259.973	259.936A	---	---	---	---	259.685	24
25	259.808	259.842	259.835	259.838	259.937	259.976	---	---	259.754A	---	---	259.684	25
26	259.813	259.840	259.837	259.842	259.939	259.980	---	---	---	---	---	259.687	26
27	259.813	259.840	259.838	259.844	259.941	259.980	---	259.867A	259.752A	---	259.678A	259.689	27
28	259.815	259.839	259.840	259.853	259.944	259.983	---	---	259.752	---	259.679	259.686	28
29	259.817		259.838	259.871	259.945	259.980	---	---	259.741	---	259.682A	259.686	29
30	259.819		259.836	259.874	259.946	259.981	---	---	259.737	---	259.681A	259.689	30
31	259.821		259.838		259.946		---	---		---		259.686	31
MEAN	259.799	259.835	259.837	259.836	259.912	259.968	---	---	---	---	---	---	MEAN
MAX	259.821	259.843	259.842	259.874	259.946	259.983	---	---	---	---	---	---	MAX
MIN	259.786	259.822	259.835	259.828	259.874	259.946	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 259.991 ON JUL 03

MAXIMUM INSTANTANEOUS,
260.028 AT 00:01 CST ON JUN 26

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 58 55 N
LONG 101 05 00 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
673 km²

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	125B	119B	119B	118B	118B	178	204	189	174	170	155B	141B	1
2	124B	119B	119B	118B	119B	177	204	189	174	170	154B	140B	2
3	124B	119B	119B	118B	120B	177	203	189	174	171	153B	140B	3
4	123B	119B	119B	118B	123B	177	202	189	173	172	152B	140B	4
5	123B	119B	119B	118B	128B	177	201	188	173	172	152B	139B	5
6	122B	119B	119B	118B	135B	177	201	189	171	171	151B	139B	6
7	122B	119B	119B	118B	142B	176	200	188	171	171	151B	139B	7
8	121B	119B	119B	118B	149B	176	200	187	171	170	150B	138B	8
9	121B	119B	119B	118B	156B	176	200	186	171	169	150B	138B	9
10	120B	119B	119B	118B	163B	176	199	185	171	170	149B	138B	10
11	120B	119B	119B	118B	170	178	198	185	172	174	149B	138B	11
12	120B	119B	119B	118B	174	181	197	183	171	173	148B	137B	12
13	120B	119B	119B	118B	176	187	196	185	171	173	148B	137B	13
14	120B	119B	119B	118B	177	191	195	185	172	174	147B	137B	14
15	120B	119B	119B	118B	178	197	194	183	172	173	147B	137B	15
16	120B	119B	118B	118B	179	202	194	182	171	174	146B	136B	16
17	120B	119B	118B	118B	178	206	193	182	171	174	146B	136B	17
18	120B	119B	118B	118B	178	207	194	180	172	174	146B	136B	18
19	120B	119B	118B	118B	177	209	193	179	172	173	145B	136B	19
20	119B	119B	118B	118B	177	210	193	178	171	172	145B	136B	20
21	119B	119B	118B	118B	176	211	193	178	171	172	144B	135B	21
22	119B	119B	118B	118B	176	210	193	178	171	172	144B	135B	22
23	119B	119B	118B	118B	176	210	192	179	172	171	144B	135B	23
24	119B	119B	118B	118B	177	209	191	179	172	171	143B	135B	24
25	119B	119B	118B	118B	177	208	189	178	171	171	143B	135B	25
26	119B	119B	118B	118B	179	207	187	178	172	170	142B	134B	26
27	119B	119B	118B	118B	179	206	187	177	172	170	142B	134B	27
28	119B	119B	118B	118B	179	205	189	177	171	170	142B	134B	28
29	119B		118B	118B	179	205	187	177	169	163B	141B	134B	29
30	119B		118B	118B	179	204	187	177	171	159B	141B	134B	30
31	119B		118B		179		189	177		157B		134B	31
TOTAL	3 733	3 332	3 673	3 540	5 073	5 810	6 045	5 656	5 150	5 286	4 410	4 237	TOTAL
MEAN	120	119	118	118	164	194	195	182	172	171	147	137	MEAN
MAX	125	119	119	118	179	211	204	189	174	174	155	141	MAX
MIN	119	119	118	118	118	176	187	177	169	157	141	134	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 153
MAXIMUM DAILY, 211 ON JUN 21
MINIMUM DAILY, 118B ON MAR 16
MAXIMUM INSTANTANEOUS,
211 AT 16:39 CST ON JUN 21

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 00 00 N
LONG 101 23 45 W
DRAINAGE AREA, 28 400 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	323 000	JUL	522 000
FEB	288 000	AUG	489 000
MAR	317 000	SEP	445 000
APR	306 000	OCT	457 000
MAY	438 000	NOV	381 000
JUN	502 000	DEC	366 000

TOTAL DISCHARGE, 4 830 000 dam³

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	0 B	0.201	0.007	0.027	0.019	0	0	---	---	1
2	---	---	OB	0 B	0.191	0.001	0.024	0.018	0	0	---	---	2
3	---	---	OB	0.133B	0.162	0	0.029	0.016	0	0	---	---	3
4	---	---	OB	0.078B	0.127	0	0.025	0.015	0	0	---	---	4
5	---	---	OB	0.004B	0.120	0.011A	0.024	0.013	0	0	---	---	5
6	---	---	OB	0.017B	0.096	0.006E	0.041	0.012	0	0	---	---	6
7	---	---	OB	0.522B	0.097	0.002A	0.044	0.010	0	0	---	---	7
8	---	---	OB	0.433B	0.115	0.023	0.058	0.007	0	0	---	---	8
9	---	---	OB	0.192B	0.083	0.016	0.047	0.005	0	0	---	---	9
10	---	---	OB	0.035B	0.061	0.009	0.049	0.004	0	0	---	---	10
11	---	---	OB	0.036B	0.072	0.008	0.061	0.004	0	0	---	---	11
12	---	---	OB	0.065B	0.064	0.005	0.056	0.003	0	0	---	---	12
13	---	---	OB	1.38 B	0.057	0.003	0.050	0.001	0	0	---	---	13
14	---	---	OB	1.28 B	0.091	0.002	0.048	0.001	0	0	---	---	14
15	---	---	OB	0.496B	0.069	0.002	0.044	0.001	0	0	---	---	15
16	---	---	OB	1.99 B	0.371	0.001	0.038	0.001	0	0	---	---	16
17	---	---	OB	1.36 B	0.459	0.002	0.042	0	0	0	---	---	17
18	---	---	OB	0.987	0.403	0.003	0.039	0	0	0	---	---	18
19	---	---	OB	1.38	0.377	0.003	0.036	0	0	0	---	---	19
20	---	---	OB	1.61	0.393	0.049	0.209	0	0	0	---	---	20
21	---	---	OB	1.43	0.429	0.143	0.029	0	0	0	---	---	21
22	---	---	OB	1.20	0.451	0.100	0.026	0.013	0	0	---	---	22
23	---	---	OB	0.963	0.439	0.054	0.025	0.002	0	0	---	---	23
24	---	---	OB	0.829	0.421	0.036	0.023	0.001	0	0	---	---	24
25	---	---	OB	0.689	0.374	0.023	0.021	0.001	0	0	---	---	25
26	---	---	OB	0.566	0.272	0.018	0.020	0.001	0	0	---	---	26
27	---	---	OB	0.439	0.140	0.017	0.024	0.001	0	0	---	---	27
28	---	---	OB	0.245	0.039	0.028	0.025	0	0	0	---	---	28
29	---	---	OB	0.177	0.034	0.040	0.023	0	0	0	---	---	29
30	---		OB	0.172	0.027	0.037	0.021	0	0	0	---	---	30
31	---		OB		0.016		0.020	0		0		---	31
TOTAL	---	---	0	18.708	6.251	0.649	1.248	0.149	0	0	---	---	TOTA
MEAN	---	---	0	0.624	0.202	0.022	0.040	0.005	0	0	---	---	MEAN
MAX	---	---	0	1.99	0.459	0.143	0.209	0.019	0	0	---	---	MAX
MIN	---	---	0	0	0.016	0	0.020	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.110
MAXIMUM DAILY, 1.99B ON APR 16
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.92B AT 11:09 CST ON APR 16

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 47 30 N
LONG 101 17 55 W
DRAINAGE AREA, 88.1 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	108
FEB	---	AUG	12.9
MAR	0	SEP	0
APR	1 620	OCT	0
MAY	540	NOV	---
JUN	56.1	DEC	---

TOTAL DISCHARGE, 2 340 dam³

COOKS CREEK AT COOKS CREEK - STATION NO. 05QJ006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	---	---	0 B	0.757B	0.003	0.124	0.820	0	0	0E	---	---	1
2	---	---	0 B	0.975B	0.001E	0.269	0.777	0	0	0E	---	---	2
3	---	---	0 B	0.859B	0.005	0.416	0.782	0	0	0E	---	---	3
4	---	---	0 B	0.954B	0.006	0.519	0.751	0	0	0E	---	---	4
5	---	---	0 B	1.30 B	0.008	0.917	0.698	0	0	0E	---	---	5
6	---	---	0 B	1.50 B	0.012	1.13	0.661	0	0	0E	---	---	6
7	---	---	0 B	1.55 B	0.013	1.37	0.645	0	0	0E	---	---	7
8	---	---	0 B	1.40 B	0.014	1.72	0.596	0	0	0E	---	---	8
9	---	---	0 B	1.30 B	0.018	2.04	0.544	0	0	0A	---	---	9
10	---	---	0 B	1.10 B	0.023	2.35	0.530	0	0	0	---	---	10
11	---	---	0.002B	0.900B	0.024	2.34	0.567	0	0	0	---	---	11
12	---	---	0.004B	0.700B	0.027	2.38	0.480	0	0	0	---	---	12
13	---	---	0.007B	0.750B	0.032	2.41	0.444	0	0	0	---	---	13
14	---	---	0.004B	0.770B	0.033	2.09	0.395	0	0	0	---	---	14
15	---	---	0.002B	0.800B	0.034	1.96	0.353	0	0E	0	---	---	15
16	---	---	0 B	0.760B	0.047	1.87	0.298	0	0E	0	---	---	16
17	---	---	0 B	0.660B	0.067	1.82	0.268	0	0E	0	---	---	17
18	---	---	0 B	0.620B	0.073	1.79	0.230	0	0E	0	---	---	18
19	---	---	0 B	0.418	0.084	1.80	0.201	0	0E	0	---	---	19
20	---	---	0 B	0.337	0.097	2.11	0.152	0	0E	0	---	---	20
21	---	---	0 B	0.222	0.108	3.49	0.106	0	0E	0	---	---	21
22	---	---	0 B	0.103	0.123	2.27	0.077	0	0E	0	---	---	22
23	---	---	0 B	0.043	0.126	1.71	0.061	0	0E	0	---	---	23
24	---	---	0 B	0.051	0.135	1.52	0.053	0	0E	0	---	---	24
25	---	---	0 B	0.067	0.138	1.38	0.045	0	0E	0	---	---	25
26	---	---	0 B	0.016	0.139	1.25	0.034	0	0E	0	---	---	26
27	---	---	0 B	0.005	0.137	1.14	0.026	0	0E	0	---	---	27
28	---	---	0.010B	0.013	0.137	1.04	0.017	0	0E	0	---	---	28
29	---	---	0.050B	0.007	0.135	0.943	0.005	0	0E	0	---	---	29
30	---		0.104B	0.002	0.133	0.880	0	0		0A		---	30
31	---		0.254B		0.130		0	0		0		---	31
TOTAL	---	---	0.437	18.939	2.062	47.048	10.616	0	0	0	---	---	TO
MEAN	---	---	0.014	0.631	0.067	1.57	0.343	0	0	0	---	---	ME
MAX	---	---	0.254	1.55	0.139	3.49	0.820	0	0	0	---	---	MA
MIN	---	---	0	0.002	0.001	0.124	0	0	0	0	---	---	MI

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.323
MAXIMUM DAILY, 3.49 ON JUN 21
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.68 AT 10:09 CST ON JUN 21

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 12 N
LONG 096 46 23 W
DRAINAGE AREA, 527 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	917
FEB	---	AUG	0
MAR	37.7	SEP	0
APR	1 640	OCT	0
MAY	178	NOV	---
JUN	4 060	DEC	---

TOTAL DISCHARGE, 6 830 dam³

COOKS CREEK BELOW COOKS CREEK DIVERSION - STATION NO. 05OJ019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.466B	0.025E	0.022	0.557	0.009	0	0	---	---	1
2	---	---	0 B	0.448B	0.021E	0.062	0.542	0.008	0	0	---	---	2
3	---	---	0 B	0.304B	0.015E	0.294	0.521	0.007	0	0	---	---	3
4	---	---	0 B	0.209B	0.013A	1.13	0.514	0.006	0	0 A	---	---	4
5	---	---	0 B	0.173B	0.012	0.762	0.504	0.006	0	0	---	---	5
6	---	---	0 B	0.105B	0.011	0.587	0.484	0.006	0	0	---	---	6
7	---	---	0 B	0.084B	0.011	0.525	0.500	0.005	0	0	---	---	7
8	---	---	0 B	0.087B	0.010	0.515	0.493	0.004	0	0	---	---	8
9	---	---	0 B	0.086B	0.010	1.04	0.500	0.004	0	0	---	---	9
10	---	---	0 B	0.091B	0.009	1.60	0.527	0.004	0	0	---	---	10
11	---	---	0 B	0.098B	0.008	1.59	0.530	0.004	0	0	---	---	11
12	---	---	0 B	0.093B	0.008	1.85	0.466	0.003	0	0	---	---	12
13	---	---	0 B	0.095B	0.007	1.78	0.415	0.003	0	0	---	---	13
14	---	---	0.031B	0.104B	0.007	1.62	0.363	0.002	0	0	---	---	14
15	---	---	0.050B	0.103B	0.007	1.51	0.317	0.002	0	0.002A	---	---	15
16	---	---	0.040B	0.095B	0.008	1.48	0.251	0.002	0	0.025	---	---	16
17	---	---	0.020B	0.086B	0.012	1.49	0.199	0.002	0.002A	0.013	---	---	17
18	---	---	0 B	0.080B	0.013	1.50	0.166	0.001	0.027	0.008	---	---	18
19	---	---	0 B	0.057B	0.013	1.51	0.141	0.001	0.014	0.007	---	---	19
20	---	---	0 B	0.064B	0.012	1.92	0.111	0.001	0.008	0.006	---	---	20
21	---	---	0 B	0.078B	0.016	1.86	0.088	0 A	0.005	0.005	---	---	21
22	---	---	0 B	0.074B	0.051	1.51	0.068	0	0.004	0.005	---	---	22
23	---	---	0 B	0.066	0.058	1.28	0.054	0	0.003	0.005	---	---	23
24	---	---	0 B	0.061A	0.050	1.10	0.045	0	0.002	0.005	---	---	24
25	---	---	0 B	0.058E	0.042	0.941	0.036	0	0.002	0.004	---	---	25
26	---	---	0 B	0.055E	0.037	0.825	0.028	0	0.001	0.003	---	---	26
27	---	---	0 B	0.047E	0.037	0.705	0.022	0	0.001	0.003	---	---	27
28	---	---	0 B	0.040E	0.038	0.620	0.017	0	0	0.002	---	---	28
29	---	---	0.200B	0.032E	0.036	0.575	0.013	0	0	0.002	---	---	29
30	---		0.403B	0.027E	0.030	0.551	0.011	0	0	0.002	---	---	30
31	---		0.522B		0.025		0.011	0		0.001A		---	31
TOTAL	---	---	1.266	3.466	0.652	32.754	8.494	0.080	0.069	0.098	---	---	TOTAL
MEAN	---	---	0.041	0.116	0.021	1.09	0.274	0.003	0.002	0.003	---	---	MEAN
MAX	---	---	0.522	0.466	0.058	1.92	0.557	0.009	0.027	0.025	---	---	MAX
MIN	---	---	0	0.027	0.007	0.022	0.011	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.191
MAXIMUM DAILY, 1.92 ON JUN 20
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.03 AT 23:31 CST ON JUN 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 01 N
LONG 096 44 22 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	734
FEB	---	AUG	6.91
MAR	109	SEP	5.96
APR	299	OCT	8.47
MAY	56.3	NOV	---
JUN	2 830	DEC	---

TOTAL DISCHARGE, 4 050 dam³

COOKS CREEK DIVERSION AT INLET - STATION NO. 05OJ020

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.110B	0E	0	0	0	0	0	---	---	1
2	---	---	0 B	0.103B	0E	0	0	0	0	0	---	---	2
3	---	---	0 B	0 B	0E	0	0	0	0	0	---	---	3
4	---	---	0 B	0	0A	0.003E	0	0	0	0A	---	---	4
5	---	---	0 B	0	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0	0	0	0	0	0	0	---	---	6
7	---	---	0 B	0	0	0	0	0	0	0	---	---	7
8	---	---	0 B	0	0	0	0	0	0	0	---	---	8
9	---	---	0 B	0	0	0	0	0	0	0	---	---	9
10	---	---	0 B	0	0	0.105	0	0	0	0	---	---	10
11	---	---	0 B	0	0	0.105	0	0	0	0	---	---	11
12	---	---	0 B	0	0	0.170	0	0	0	0	---	---	12
13	---	---	0 B	0	0	0.150	0	0	0	0	---	---	13
14	---	---	0 B	0	0	0.107	0	0	0	0	---	---	14
15	---	---	0 B	0	0	0.104	0	0	0	0A	---	---	15
16	---	---	0 B	0	0	0.075	0	0	0	0	---	---	16
17	---	---	0 B	0	0	0.075	0	0	0A	0	---	---	17
18	---	---	0 B	0	0	0.076	0	0	0	0	---	---	18
19	---	---	0 B	0	0	0.104	0	0	0	0	---	---	19
20	---	---	0 B	0	0	0.242	0	0	0	0	---	---	20
21	---	---	0 B	0	0	0.260	0	0A	0	0	---	---	21
22	---	---	0 B	0	0	0.170	0	0	0	0	---	---	22
23	---	---	0 B	0	0	0.107	0	0	0	0	---	---	23
24	---	---	0 B	0 A	0	0.060	0	0	0	0	---	---	24
25	---	---	0 B	0 E	0	0.004	0	0	0	0	---	---	25
26	---	---	0 B	0 E	0	0	0	0	0	0	---	---	26
27	---	---	0 B	0 E	0	0	0	0	0	0	---	---	27
28	---	---	0 B	0 E	0	0	0	0	0	0	---	---	28
29	---	---	0.050B	0 E	0	0	0	0	0	0	---	---	29
30	---		0.110B	0 E	0	0	0	0	0	0	---	---	30
31	---		0.190B		0		0	0		0A		---	31
TOTAL	---	---	0.350	0.213	0	1.917	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.011	0.007	0	0.064	0	0	0	0	---	---	MEAN
MAX	---	---	0.190	0.110	0	0.260	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.010
MAXIMUM DAILY, 0.260 ON JUN 21
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 01 N
LONG 096 44 22 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	30.2	SEP	0
APR	18.4	OCT	0
MAY	0	NOV	---
JUN	166	DEC	---

TOTAL DISCHARGE, 215 dam³

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.58 B	0	0	0.700	0	0	0	---	---	1
2	---	---	0 B	6.26 B	0	1.40 A	0.646	0	0	0	---	---	2
3	---	---	0 B	5.38 B	0	1.77	0.583	0	0	0	---	---	3
4	---	---	0 B	3.59 B	0	1.06	0.566	0	0	0	---	---	4
5	---	---	0 B	2.32 B	0	0.968	0.613	0	0	0	---	---	5
6	---	---	0 B	4.01 B	0	1.45	0.625	0	0	0	---	---	6
7	---	---	0 B	2.10 B	0	1.01	0.631	0	0	0	---	---	7
8	---	---	0 B	1.65 B	0	0.950	0.618	0	0	0	---	---	8
9	---	---	0 B	1.19 B	0	1.51	0.617	0	0	0	---	---	9
10	---	---	0 B	1.24 B	0	2.95	0.559	0	0	0	---	---	10
11	---	---	0.005B	1.37 B	0	3.70	0.504	0	0	0	---	---	11
12	---	---	0.010B	1.08 B	0	3.90	0.584	0	0	0	---	---	12
13	---	---	0.014B	0.758B	0	3.66	0.687	0	0	0	---	---	13
14	---	---	0.010B	0.843	0	3.14	0.564	0	0	0	---	---	14
15	---	---	0.074B	0.886	0	2.37	0.525	0	0	0	---	---	15
16	---	---	0.077B	0.920	0	1.96	0.454	0	0	0	---	---	16
17	---	---	0.230B	0.734	0	1.75	0.381	0	0	0	---	---	17
18	---	---	0.912B	0.608	0	1.61	0.314	0	0	0	---	---	18
19	---	---	0.972B	0.546	0	1.61	0.224	0	0	0	---	---	19
20	---	---	0.610B	0.564	0	1.98	0.164	0	0	0	---	---	20
21	---	---	0.519B	0.523	0	5.61	0.133	0	0	0	---	---	21
22	---	---	0.386B	0.399	0	9.52	0.069	0	0	0	---	---	22
23	---	---	0.359B	0.269	0	5.76	0.022	0	0	0	---	---	23
24	---	---	0.331B	0.150	0	3.32	0.004	0	0	0	---	---	24
25	---	---	0.279B	0.070	0	2.29	0	0	0	0	---	---	25
26	---	---	0.225B	0.013	0A	1.74	0	0	0	0	---	---	26
27	---	---	0.176B	0.005	0	1.44	0	0	0	0	---	---	27
28	---	---	0.192B	0.001	0	1.17	0	0	0	0	---	---	28
29	---	---	0.356B	0	0	0.952	0	0	0	0	---	---	29
30	---	---	1.35 B	0	0	0.824	0	0	0	0	---	---	30
31	---	---	3.36 B		0		0			0	---	---	31
TOTAL	---	---	10.447	43.059	0	71.604	10.787	0	0	0	---	---	TOTAL
MEAN	---	---	0.337	1.44	0	2.39	0.348	0	0	0	---	---	MEAN
MAX	---	---	3.36	6.26	0	9.52	0.700	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.555
MAXIMUM DAILY, 9.52 ON JUN 22
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
10.2 AT 08:43 CST ON JUN 22

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 08 25 N
LONG 096 49 48 W

DRAINAGE AREA, 674 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	932
FEB	---	AUG	0
MAR	903	SEP	0
APR	3 720	OCT	0
MAY	0	NOV	---
JUN	6 190	DEC	---

TOTAL DISCHARGE, 11 700 dam³

CORMORANT LAKE AT CORMORANT - STATION NO. 05KK002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	255.726	255.743	255.760	255.733	255.792	255.893	255.937	255.862	255.718	255.590	255.521	255.547	1
2	255.726	255.744	255.755	255.730	255.787	255.889	255.927	255.867	255.716	255.593	255.554	255.542	2
3	255.726	255.745	255.752	255.736	255.791	255.899	255.898	255.861	255.720	255.599	255.561	255.547	3
4	255.727	255.748	255.753	255.736	255.796	255.893	255.917	255.845	255.714	255.585	255.545	255.546	4
5	255.736	255.744	255.754	255.730	255.796	255.901	255.918	255.840	255.707	255.568	255.564	255.551	5
6	255.748	255.744	255.752	255.727	255.799	255.907	255.913	255.843	255.695	255.564	255.561	255.546	6
7	255.746	255.743	255.754	255.731	255.800	255.903	255.918	255.842	255.695	255.563	255.545	255.546	7
8	255.749	255.739	255.753	255.727	255.807	255.906	255.923	255.836	255.682	255.558	255.555	255.549	8
9	255.743	255.743	255.750	255.727	255.807	255.908	255.925	255.819	255.677	255.551	255.564	255.552	9
10	255.749	255.743	255.755	255.724	255.814	255.904	255.920	255.816	255.672	255.562	255.546	255.549	10
11	255.754	255.747	255.756	255.728	255.814	255.907	255.918	255.809	255.563	255.592	255.541	255.552	11
12	255.744	255.752	255.754	255.727	255.819	255.913	255.924	255.807	255.628	255.558	255.535	255.556	12
13	255.742	255.755	255.754	255.724	255.819	255.909	255.918	255.801	255.644	255.573	255.537	255.557	13
14	255.746	255.753	255.757	255.725	255.827	255.912	255.928	255.802	255.645	255.574	255.538	255.547	14
15	255.743	255.754	255.758	255.725	255.833	255.919	255.925	255.785	255.636	255.576	255.540	255.535	15
16	255.742	255.753	255.760	255.723	255.836	255.919	255.906	255.780	255.629	255.568	255.534	255.558	16
17	255.742	255.751	255.757	255.721	255.834	255.917	255.904	255.774	255.631	255.571	255.537	255.551	17
18	255.742	255.755	255.753	255.719	255.836	255.919	255.902	255.763	255.648	255.553	255.538	255.552	18
19	255.745	255.757	255.752	255.725	255.843	255.923	255.897	255.767	255.618	255.549	255.533	255.552	19
20	255.741	255.769	255.749	255.722	255.852	255.924	255.882	255.765	255.613	255.555	255.535	255.554	20
21	255.750	255.772	255.754	255.730	255.857	255.926	255.882	255.762	255.617	255.552	255.542	255.550	21
22	255.751	255.768	255.752	255.732	255.864	255.927	255.883	255.759	255.616	255.537	255.558	255.554	22
23	255.747	255.766	255.748	255.736	255.866	255.922	255.883	255.764	255.616	255.547	255.558	255.563	23
24	255.750	255.761	255.751	255.736	255.872	255.931	255.895	255.765	255.617	255.540	255.554	255.561	24
25	255.746	255.759	255.748	255.738	255.872	255.930	255.899	255.745	255.614	255.540	255.552	255.559	25
26	255.751	255.762	255.743	255.746	255.881	255.929	255.891	255.736	255.618	255.542	255.545	255.559	26
27	255.747	255.758	255.737	255.751	255.876	255.918	255.889	255.739	255.598	255.543	255.544	255.564	27
28	255.744	255.757	255.731	255.763	255.880	255.928	255.904	255.743	255.594	255.520	255.546	255.566	28
29	255.746		255.735	255.784	255.888	255.923	255.889	255.742	255.585	255.546	255.546	255.560	29
30	255.746		255.740	255.790	255.894	255.930	255.868	255.730	255.594	255.516	255.552	255.560	30
31	255.747		255.738		255.901			255.728		255.518		255.564	31
MEAN	255.743	255.753	255.751	255.735	255.837	255.914	255.906	255.790	255.647	255.557	255.546	255.554	MEAN
MAX	255.754	255.772	255.760	255.790	255.901	255.931	255.937	255.867	255.720	255.599	255.564	255.566	MAX
MIN	255.726	255.739	255.731	255.719	255.787	255.889	255.868	255.728	255.585	255.516	255.521	255.542	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 255.728
MAXIMUM DAILY, 255.937 ON JUL 01
MINIMUM DAILY, 255.516 ON OCT 30
MAXIMUM INSTANTANEOUS,
255.957 AT 14:44 CST ON JUL 01

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 13 00 N
LONG 100 36 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
2 740 km²

CROSS LAKE AT CROSS LAKE - STATION NO. 05UD001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	207.400	207.114	206.822	206.277	206.223	205.995	205.962	206.172	206.464	207.028	207.331	207.277	1
2	207.381	207.107	206.796	206.270	206.215	206.027	205.970	206.181	206.452	207.103	207.334	207.298	2
3	207.370	207.105	206.784	206.268	206.216	206.015	205.984	206.177	206.452	207.162	207.337	207.315	3
4	207.357	207.096	206.767	206.264	206.215	205.996	205.991	206.185	206.450	207.137	207.336	207.338	4
5	207.351	207.083	206.751	206.259	206.215	205.926	205.959	206.166	206.457	207.154	207.345	207.349	5
6	207.349	207.073	206.736	206.256	206.225	205.938	205.942	206.179	206.513	207.165	207.354	207.365	6
7	207.340	207.062	206.718	206.251	206.241	205.951	205.954	206.187	206.526	207.178	207.369	207.388	7
8	207.330	207.055	206.703	206.249	206.246	205.946	205.980	206.194	206.508	207.186	207.370	207.401	8
9	207.319	207.046	206.682	206.242	206.245	205.929	205.992	206.211	206.540	207.203	207.362	207.384	9
10	207.316	207.036	206.665	206.235	206.245	205.947	206.000	206.208	206.559	207.215	207.326	207.383	10
11	207.302	207.026	206.652	206.232	206.258	205.927	205.991	206.199	206.588	207.233	207.306	207.389	11
12	207.290	207.016	206.633	206.227	206.259	205.954	206.002	206.212	206.625	207.257	207.300	207.397	12
13	207.281	207.010	206.604	206.227	206.269	205.988	206.002	206.201	206.664	207.290	207.294	207.394	13
14	207.271	207.005	206.570	206.227	206.263	205.992	206.027	206.246	206.668	207.292	207.279	207.393	14
15	207.259	206.999	206.548	206.229	206.248	205.938	206.040	206.257	206.665	207.275	207.266	207.395	15
16	207.252	206.994	206.546	206.231	206.241	205.912	206.058	206.246	206.676	207.266	207.251	207.407	16
17	207.245	206.987	206.529	206.233	206.247	205.941	206.101	206.244	206.675	207.254	207.237	207.411	17
18	207.238	206.983	206.514	206.237	206.215	205.989	206.120	206.250	206.710	207.247	207.225	207.423	18
19	207.230	206.976	206.494	206.246	206.180	205.993	206.127	206.247	206.770	207.313	207.212	207.435	19
20	207.229	206.972	206.466	206.250	206.180	206.005	206.141	206.248	206.828	207.317	207.199	207.450	20
21	207.229	206.954	206.445	206.261	206.189	206.009	206.155	206.271	206.870	207.292	207.189	207.457	21
22	207.217	206.945	206.426	206.271	206.160	206.004	206.139	206.310	206.868	207.288	207.195	207.460	22
23	207.210	206.935	206.411	206.286	206.147	205.988	206.149	206.340	206.851	207.290	207.188	207.465	23
24	207.199	206.926	206.395	206.271	206.143	205.963	206.144	206.364	206.858	207.288	207.185	207.468	24
25	207.187	206.918	206.380	206.264	206.131	205.987	206.161	206.374	206.910	207.286	207.183	207.468	25
26	207.176	206.902	206.367	206.261	206.112	205.986	206.162	206.381	206.939	207.295	207.207	207.461	26
27	207.150	206.871	206.342	206.265	206.098	205.966	206.156	206.373	206.974	207.314	207.226	207.459	27
28	207.144	206.852	206.319	206.240	206.104	205.979	206.154	206.378	207.009	207.306	207.241	207.452	28
29	207.142		206.298	206.243	206.044	205.992	206.170	206.385	207.003	207.296	207.257	207.448	29
30	207.133		206.285	206.234	206.014	205.967	206.154	206.418	206.997	207.290	207.265	207.446	30
31	207.122		206.281		206.005		206.166	206.439		207.317		207.445	31
MEAN	207.259	207.002	206.546	206.251	206.187	205.969	206.066	206.266	206.702	207.246	207.272	207.407	MEAN
MAX	207.400	207.114	206.822	206.286	206.269	206.027	206.170	206.439	207.009	207.317	207.370	207.468	MAX
MIN	207.122	206.852	206.281	206.227	206.005	205.912	205.942	206.166	206.432	207.028	207.183	207.277	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 206.680
MAXIMUM DAILY, 207.468 ON DEC 24
MINIMUM DAILY, 205.912 ON JUN 16
MAXIMUM INSTANTANEOUS,
207.470 AT 13:40 CST ON DEC 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 37 25 N
LONG 097 47 07 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
997 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1968 ADJ.)

CRYSTAL CITY RESERVOIR AT CRYSTAL CITY - STATION NO. 05OB801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	452.000E	451.582E	451.367	451.312E	451.017	450.684E	450.457	---	---	1
2	---	---	---	451.972	451.572	451.375E	451.312	451.005E	450.675E	450.450E	---	---	2
3	---	---	---	451.942E	451.562E	451.384E	451.307E	450.992	450.667	450.442	---	---	3
4	---	---	---	451.912	451.552	451.392	451.302	450.975E	450.662E	450.440E	---	---	4
5	---	---	---	451.902E	451.549E	451.397E	451.300E	450.959E	450.657	450.437	---	---	5
6	---	---	---	451.892	451.545E	451.402	451.297	450.942	450.650E	450.435E	---	---	6
7	---	---	---	451.887E	451.542	451.397E	451.297E	450.917E	450.642	450.434E	---	---	7
8	---	---	---	451.882E	451.530E	451.392	451.297E	450.892	450.637E	450.432	---	---	8
9	---	---	---	451.877	451.517	451.387E	451.297	450.880E	450.632E	450.430E	---	---	9
10	---	---	---	451.852E	451.505E	451.382E	451.280E	450.867	450.627	450.427	---	---	10
11	---	---	---	451.827	451.492	451.377	451.262	450.864E	450.610E	450.420E	---	---	11
12	---	---	---	451.807E	451.475E	451.360E	451.252E	450.860E	450.592	450.412	---	---	12
13	---	---	---	451.787	451.459E	451.342	451.242	450.857	450.585E	450.412E	---	---	13
14	---	---	---	451.784E	451.442	451.341E	451.192E	450.850E	450.577	450.412E	---	---	14
15	---	---	---	451.780E	451.442E	451.340	451.142E	450.842	450.572E	450.412	---	---	15
16	---	---	---	451.777	451.442	451.340E	451.092	450.832E	450.567E	450.389	---	---	16
17	---	---	---	451.770E	451.467E	451.340E	451.092E	450.822	450.562	450.401	---	---	17
18	---	---	---	451.762	451.492	451.340	451.092	450.822E	450.557E	450.399E	---	---	18
19	---	---	---	451.747E	451.480E	451.339E	451.087E	450.822E	450.552	450.396	---	---	19
20	---	---	---	451.732	451.469E	451.337	451.082	450.822	450.547E	450.393E	---	---	20
21	---	---	---	451.710E	451.457	451.335E	451.079E	450.792E	450.542	450.390E	---	---	21
22	---	---	---	451.689E	451.450E	451.332	451.075E	450.762	450.540E	450.387	---	---	22
23	---	---	---	451.667	451.442	451.332E	451.072	450.762E	450.539E	450.379E	---	---	23
24	---	---	---	451.655E	451.437E	451.332E	451.085E	450.762	450.537	450.371	---	---	24
25	---	---	---	451.642	451.432	451.332	451.097	450.769E	450.525E	450.366E	---	---	25
26	---	---	---	451.632E	451.427E	451.325E	451.070E	450.775E	450.512	450.361	---	---	26
27	---	---	---	451.622	451.422E	451.317	451.042	450.782	450.502E	450.358E	---	---	27
28	---	---	---	451.612E	451.417	451.315E	451.040E	450.760E	450.492	450.355E	---	---	28
29	---		---	451.602E	451.405E	451.314	451.039E	450.737	450.480E	450.351E	---	---	29
30	---		---	451.592	451.392	451.312E	451.037	450.715E	450.469E	450.348E	---	---	30
31	---		---		451.380E		451.027E	450.692		450.345E		---	31
MEAN	---	---	---	451.777	451.477	451.353	451.168	450.843	450.580	450.401	---	---	MEAN
MAX	---	---	---	452.000	451.582	451.402	451.312	451.017	450.684	450.457	---	---	MAX
MIN	---	---	---	451.592	451.380	451.312	451.027	450.692	450.469	450.345	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 08 39 N
LONG 098 57 20 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1962

DRAINAGE AREA,
158 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "CRYSTAL CREEK ABOVE CRYSTAL CITY DAM"

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.08 B	0.001	0	0	0	0	0	---	---	1
2	---	---	0 B	2.61 B	0.001	0	0	0	0	0	---	---	2
3	---	---	0 B	1.95 B	0.001	0	0	0	0	0	---	---	3
4	---	---	0 B	1.34 B	0.001	0	0	0	0	0	---	---	4
5	---	---	0 B	0.538B	0.001	0	0	0	0	0	---	---	5
6	---	---	0 B	0.580B	0.001	0	0	0	0	0	---	---	6
7	---	---	0 B	0.617	0	0	0	0	0	0	---	---	7
8	---	---	0 B	0.476	0	0.001	0	0	0	0	---	---	8
9	---	---	0 B	0.330	0	0.001	0	0	0	0	---	---	9
10	---	---	0 B	0.277	0	0.001	0	0	0	0	---	---	10
11	---	---	0 B	0.176	0	0.001	0	0	0	0	---	---	11
12	---	---	0.002B	0.143	0	0	0	0	0	0	---	---	12
13	---	---	0.022B	0.196	0	0	0	0	0	0	---	---	13
14	---	---	0.198B	0.373	0	0	0	0	0	0	---	---	14
15	---	---	0.108B	0.134	0	0	0	0	0	0	---	---	15
16	---	---	0.040B	0.057	0.001	0	0	0	0	0	---	---	16
17	---	---	0.039B	0.031	0.003	0	0	0	0	0	---	---	17
18	---	---	0.022B	0.019	0.002	0	0	0	0	0	---	---	18
19	---	---	0.009B	0.014	0.002	0	0	0	0	0	---	---	19
20	---	---	0.002B	0.011	0.002	0	0	0	0	0	---	---	20
21	---	---	0.002B	0.005	0.002	0	0	0	0	0	---	---	21
22	---	---	0.001B	0.003	0.001	0	0	0	0	0	---	---	22
23	---	---	0.001B	0.002	0.001	0	0	0	0	0	---	---	23
24	---	---	0.002B	0.001	0.001	0	0	0	0	0	---	---	24
25	---	---	0.003B	0.001	0.001	0	0	0	0	0	---	---	25
26	---	---	0.003B	0.001	0	0	0	0	0	0	---	---	26
27	---	---	0.004B	0.001	0	0	0	0	0	0	---	---	27
28	---	---	0.010B	0.001	0	0	0	0	0	0	---	---	28
29	---	---	0.014B	0.001	0	0	0	0	0	0	---	---	29
30	---		0.134B		0	0	0	0	0	0	---	---	30
31	---		1.00 B		0		0			0		---	31
TOTAL	---	---	1.616	13.989	0.022	0.004	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.052	0.466	0.001	0	0	0	0	0	---	---	MEAN
MAX	---	---	1.00	4.08	0.003	0.001	0	0	0	0	---	---	MAX
MIN	---	---	0	0.001	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.064
MAXIMUM DAILY, 4.08B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS
9.39B AT 17:25 CST ON APR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 28 N
LONG 098 56 28 W
DRAINAGE AREA, 135 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	140	SEP	0
APR	1 210	OCT	0
MAY	1.90	NOV	---
JUN	0.346	DEC	---

TOTAL DISCHARGE, 1 350 dam³

CYPRESS CREEK ABOVE INTERNATIONAL BORDER NEAR SARLES - STATION NO. 05OB033

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0	0	0 B	0.283B	0.008E	0.004E	0	0	0	0	0	0	1
2	0	0	0 B	2.83 B	0.008E	0.003E	0	0	0	0	0	0	2
3	0	0	0 B	4.64	0.008E	0.003E	0	0	0	0	0	0	3
4	0	0	0 B	2.80	0.008E	0.003E	0	0	0	0	0	0	4
5	0	0	0 B	1.08	0.008E	0.003E	0	0	0	0	0	0	5
6	0	0	0 B	0.963	0.008E	0.002E	0	0	0	0	0	0	6
7	0	0	0 B	1.08	0.008E	0.002E	0	0	0	0	0	0	7
8	0	0	0 B	0.821	0.008E	0.002E	0	0	0	0	0	0	8
9	0	0	0 B	0.481	0.009A	0.001E	0	0	0	0	0	0	9
10	0	0	0 B	0.255	0.008E	0.001E	0	0	0	0	0	0	10
11	0	0	0 B	0.136	0.008E	0.001E	0	0	0	0	0	0	11
12	0	0	0 B	0.096	0.008E	0.001E	0	0	0	0	0	0	12
13	0	0	0 B	0.091	0.008E	0 E	0	0	0	0	0	0	13
14	0	0	0 B	0.076	0.008E	0.004E	0	0	0	0	0	0	14
15	0	0	0 B	0.065	0.008E	0 E	0	0	0	0	0	0	15
16	0	0	0 B	0.051	0.008E	0	0	0	0	0	0	0	16
17	0	0	0.001B	0.042	0.008E	0	0	0	0	0	0	0	17
18	0	0	0.001B	0.031A	0.007E	0	0	0	0	0	0	0	18
19	0	0	0.001B	0.028E	0.007E	0	0	0	0	0	0	0	19
20	0	0	0.001B	0.024E	0.007E	0	0	0	0	0	0	0	20
21	0	0	0.001B	0.021E	0.007E	0	0	0	0	0	0	0	21
22	0	0	0.001B	0.018E	0.007E	0	0	0	0	0	0	0	22
23	0	0	0.001B	0.017E	0.007E	0	0	0	0	0	0	0	23
24	0	0	0.001B	0.016E	0.006E	0	0	0	0	0	0	0	24
25	0	0	0.001B	0.014A	0.006E	0	0	0	0	0	0	0	25
26	0	0	0.001B	0.009E	0.005E	0	0	0	0	0	0	0	26
27	0	0	0.001B	0.008E	0.005E	0	0	0	0	0	0	0	27
28	0	0	0.001B	0.008E	0.005E	0	0	0	0	0	0	0	28
29	0		0.006B	0.008E	0.005E	0	0	0	0	0	0	0	29
30	0		0.008B		0.004E		0	0	0	0	0	0	30
31	0		0.028B		0.004E					0		0	31
TOTAL	0	0	0.054	16.000	0.219	0.030	0	0	0	0	0	0	TOTAL
MEAN	0	0	0.002	0.533	0.007	0.001	0	0	0	0	0	0	MEAN
MAX	0	0	0.028	4.64	0.009	0.004	0	0	0	0	0	0	MAX
MIN	0	0	0	0.008	0.004	0	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.045
MAXIMUM DAILY, 4.64 ON APR 03
MINIMUM DAILY, 0 ON JAN 01
MAXIMUM INSTANTANEOUS
7.31B AT 23:15 CST ON APR 01

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 58 37 N
LONG 098 56 04 W
DRAINAGE AREA, 215 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	0
FEB	0	AUG	0
MAR	4.67	SEP	0
APR	1 380	OCT	0
MAY	18.9	NOV	0
JUN	2.59	DEC	0

TOTAL DISCHARGE, 1 410 dam³

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05OB010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	9.97 B	0.031	0	0	0	0	0	---	---	1
2	---	---	0 B	9.20 B	0.031	0.001	0	0	0	0	---	---	2
3	---	---	0 B	7.97 B	0.030	0.003	0	0	0	0	---	---	3
4	---	---	0 B	6.53 B	0.027	0.004	0	0	0	0	---	---	4
5	---	---	0 B	3.57	0.021	0.003	0	0	0	0	---	---	5
6	---	---	0 B	2.81	0.018	0.002	0	0	0	0	---	---	6
7	---	---	0 B	2.67	0.015	0.002	0	0	0	0	---	---	7
8	---	---	0 B	2.15	0.013	0.006	0	0	0	0	---	---	8
9	---	---	0 B	1.74	0.011	0.005	0	0	0	0	---	---	9
10	---	---	0 B	1.26	0.010	0.001	0	0	0	0	---	---	10
11	---	---	0.028B	0.666A	0.009	0	0	0	0	0	---	---	11
12	---	---	0.100B	0.407E	0.008	0	0	0	0	0	---	---	12
13	---	---	0.188B	0.371E	0.007	0	0	0	0	0	---	---	13
14	---	---	1.26 B	0.644E	0.006	0	0	0	0	0	---	---	14
15	---	---	0.606B	0.404E	0.006	0	0	0	0	0	---	---	15
16	---	---	0.549B	0.212A	0.012	0	0	0	0	0	---	---	16
17	---	---	0.524B	0.176A	0.016	0	0	0	0	0	---	---	17
18	---	---	0.063B	0.141A	0.013	0	0	0	0	0	---	---	18
19	---	---	0.023B	0.126A	0.010	0	0	0	0	0	---	---	19
20	---	---	0.021B	0.112A	0.009	0	0	0	0	0	---	---	20
21	---	---	0.023B	0.092A	0.009	0	0	0	0	0	---	---	21
22	---	---	0.017B	0.073A	0.008	0	0	0	0	0	---	---	22
23	---	---	0.012B	0.055A	0.007	0	0	0	0	0	---	---	23
24	---	---	0.009B	0.037A	0.006	0	0	0	0	0	---	---	24
25	---	---	0.006B	0.030A	0.004	0	0	0	0	0	---	---	25
26	---	---	0.005B	0.022	0.003	0	0	0	0	0	---	---	26
27	---	---	0.008B	0.017	0.002	0	0	0	0	0	---	---	27
28	---	---	0.013B	0.020	0.001	0	0	0	0	0	---	---	28
29	---	---	0.027B	0.022	0	0	0	0	0	0	---	---	29
30	---		0.203B	0.026	0	0	0	0	0	0	---	---	30
31	---		1.89 B		0		0	0		0		---	31
TOTAL	---	---	5.975	51.523	0.343	0.027	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.180	1.72	0.011	0.001	0	0	0	0	---	---	MEAN
MAX	---	---	1.89	9.97	0.031	0.006	0	0	0	0	---	---	MAX
MIN	---	---	0	0.017	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.235
MAXIMUM DAILY, 9.97B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
12.5 AT 00:15 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 21 N
LONG 098 58 54 W
DRAINAGE AREA, 398 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	482	SEP	0
APR	4 450	OCT	0
MAY	29.6	NOV	---
JUN	2.33	DEC	---

TOTAL DISCHARGE, 4 960 dam³

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	19.8	0.188	0.009	0.029	0.001	0	0	---	---	1
2	---	---	0 B	12.5	0.197	0.017	0.026	0.002	0	0	---	---	2
3	---	---	0 B	7.97	0.216	0.034	0.039	0	0	0	---	---	3
4	---	---	0 B	6.14	0.208	0.030	0.033	0	0	0	---	---	4
5	---	---	0 B	5.54	0.189	0.055	0.024	0	0	0	---	---	5
6	---	---	0 B	5.50	0.167	0.060	0.033	0	0	0	---	---	6
7	---	---	0 B	4.71	0.148	0.036	0.199	0	0	0	---	---	7
8	---	---	0 B	3.89	0.130	0.093	0.226	0	0	0	---	---	8
9	---	---	0.100B	3.36	0.103	0.222	0.133	0	0	0	---	---	9
10	---	---	0.200B	2.85	0.089	0.196	0.087	0	0	0	---	---	10
11	---	---	0.300B	2.05	0.079	0.128	0.049	0	0	0	---	---	11
12	---	---	0.414B	1.43	0.093	0.166	0.029	0	0	0	---	---	12
13	---	---	1.13 B	1.17	0.051	0.140	0.022	0	0	0	---	---	13
14	---	---	1.33 B	0.955	0.038	0.176	0.022	0	0	0	---	---	14
15	---	---	0.803B	0.794	0.035	0.207	0.053	0	0	0	---	---	15
16	---	---	0.322B	0.704	0.138	0.155	0.053	0	0	0	---	---	16
17	---	---	0.237B	0.618	0.401	0.122	0.051	0	0	0	---	---	17
18	---	---	0.206B	0.583	0.345	0.105	0.040	0	0	0	---	---	18
19	---	---	0.182B	0.537	0.235	0.369	0.031	0	0	0	---	---	19
20	---	---	0.129B	0.457	0.549	0.813	0.022	0	0	0	---	---	20
21	---	---	0.149B	0.427	0.513	0.329	0.017	0	0	0	---	---	21
22	---	---	0.150B	0.443	0.333	0.223	0.014	0	0	0	---	---	22
23	---	---	0.136B	0.435	0.213	0.131	0.010	0	0	0	---	---	23
24	---	---	0.111B	0.387	0.159	0.101	0.006	0	0	0	---	---	24
25	---	---	0.094B	0.344	0.119	0.084	0.003	0	0	0	---	---	25
26	---	---	0.116B	0.301	0.087	0.073	0.001	0	0	0	---	---	26
27	---	---	0.108	0.262	0.068	0.056	0.001	0	0	0	---	---	27
28	---	---	0.134	0.246	0.049	0.049	0.001	0	0	0	---	---	28
29	---	---	0.149	0.224	0.025	0.040	0.001	0	0	0	---	---	29
30	---		1.54	0.192	0.018	0.031	0.001	0	0	0	---	---	30
31	---		4.46		0.012		0.001	0		0		---	31
TOTAL	---	---	12.500	84.819	5.195	4.250	1.257	0.003	0	0	---	---	TOTAL
MEAN	---	---	0.403	2.83	0.168	0.142	0.041	0	0	0	---	---	MEAN
MAX	---	---	4.46	19.8	0.549	0.813	0.226	0.002	0	0	---	---	MAX
MIN	---	---	0	0.192	0.012	0.009	0.001	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.441
MAXIMUM DAILY, 19.8 ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
26.7 AT 08:30 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 46 N
LONG 098 54 25 W
DRAINAGE AREA, 277 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	109
FEB	---	AUG	0.259
MAR	1 080	SEP	0
APR	7 330	OCT	0
MAY	449	NOV	---
JUN	367	DEC	---

TOTAL DISCHARGE, 9 340 dam³

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	10.8 A	0.316	0.109	0.145	0.371	0	0	---	---	1
2	---	---	0 B	21.5 E	0.306	0.156	0.130	0.353	0	0	---	---	2
3	---	---	0 B	14.8 A	0.311	0.217	0.171	0.341	0	0	---	---	3
4	---	---	0 B	10.7 A	0.327	0.160	0.183	0.263	0	0	---	---	4
5	---	---	0 B	6.74 E	0.298	0.170	0.233	0.191			---	---	5
6	---	---	0 B	5.70 A	0.270	0.159	0.297	0.119	0	0	---	---	6
7	---	---	0 B	6.87	0.243	0.184	0.580	0.340	0	0	---	---	7
8	---	---	0 B	5.13	0.223	4.17	0.911	0.134	0	0	---	---	8
9	---	---	0.100B	4.25	0.191	2.52	0.918	0.035	0	0	---	---	9
10	---	---	0.250B	4.27	0.180	1.32	0.707	0.001			---	---	10
11	---	---	0.750B	3.47	0.152	0.922	0.646	0.001	0	0	---	---	11
12	---	---	1.12 B	2.69	0.135	0.634	0.577	0.001	0	0	---	---	12
13	---	---	3.28 B	2.18	0.117	0.447	0.474	0.219	0	0	---	---	13
14	---	---	2.42 B	1.86	0.102	0.355	0.411	0.063	0	0	---	---	14
15	---	---	1.40 B	1.56	0.086	0.272	0.379	0.001			---	---	15
16	---	---	0.418B	1.36	0.243	0.321	0.460	0	0	0	---	---	16
17	---	---	0.365B	1.19	0.648	0.321	0.536	0	0	0	---	---	17
18	---	---	0.312B	1.07	0.786	0.309	0.522	0	0	0	---	---	18
19	---	---	0.259B	0.989	0.615	2.00	0.452	0	0	0	---	---	19
20	---	---	0.206B	0.944	0.422	1.35	0.458	0			---	---	20
21	---	---	0.199B	0.827	0.560	1.32	0.546	0	0	0	---	---	21
22	---	---	0.192B	0.735	0.676	0.915	0.534	0	0	0	---	---	22
23	---	---	0.185B	0.698	0.471	0.647	0.499	0	0	0	---	---	23
24	---	---	0.178B	0.644	0.331	0.443	0.460	0	0	0	---	---	24
25	---	---	0.171B	0.669	0.237	0.293	0.405	0			---	---	25
26	---	---	0.164B	0.540	0.223	0.244	0.432	0	0	0	---	---	26
27	---	---	0.157B	0.460	0.235	0.204	0.476	0	0	0	---	---	27
28	---	---	0.150B	0.417	0.208	0.187	0.481	0	0	0	---	---	28
29	---	---	0.300B	0.426	0.170	0.176	0.465	0	0	0	---	---	29
30	---	---	3.00 B	0.360	0.141	0.161	0.434	0	0	0	---	---	30
31	---	---	6.00 B		0.123		0.401	0					31
TOTAL	---	---	21.576	111.869	9.343	20.686	14.323	2.433	0	0	---	---	TOTAL
MEAN	---	---	0.696	3.73	0.301	0.690	0.462	0.079	0	0	---	---	MEAN
MAX	---	---	6.00	21.5	0.786	4.17	0.918	0.371	0	0	---	---	MAX
MIN	---	---	0	0.360	0.086	0.109	0.130	0			---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.736
MAXIMUM DAILY, 21.5E ON APR 02
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 31 N
LONG 099 02 00 W
DRAINAGE AREA, 624 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL 1	240
FEB	---	AUG	210
MAR 1	860	SEP	0
APR 9	670	OCT	0
MAY	807	NOV	---
JUN 1	790	DEC	---

TOTAL DISCHARGE, 15 600 dam³

DAUPHIN LAKE AT OCHRE BEACH - STATION NO. 05LJ816

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	260.737	261.064E	260.876E	260.731E	260.537	260.426E	260.436E	---	1
2	---	---	---	---	260.754	261.141	260.856	260.706	260.522E	260.396	260.416	---	2
3	---	---	---	---	260.755E	261.016	260.856	260.826	260.507	260.441E	260.486	---	3
4	---	---	---	---	260.756	260.897	260.906	260.686	260.512E	260.486	260.396E	---	4
5	---	---	---	---	260.766E	260.986	260.856	260.674E	260.517	260.526	260.306	---	5
6	---	---	---	---	260.776	260.936	260.856	260.661	260.512E	260.436	260.339E	---	6
7	---	---	---	---	260.780E	260.976	260.866	260.646	260.507	260.443E	260.371	---	7
8	---	---	---	---	260.784	261.036	260.866	260.666	260.567	260.449E	---	---	8
9	---	---	---	---	260.788E	261.006E	260.881	260.686	260.537E	260.456	---	---	9
10	---	---	---	---	260.792E	260.976	260.846	260.616	260.507	260.456	---	---	10
11	---	---	---	---	260.796	260.986	260.844	260.606	260.517E	260.446E	---	---	11
12	---	---	---	---	260.804E	260.976	260.826	260.596	260.527	260.436	---	---	12
13	---	---	260.242	---	260.811	260.966	260.831E	260.632E	260.587	260.436	---	---	13
14	---	---	---	---	260.811E	260.986	260.836	260.668	260.497	260.435E	---	---	14
15	---	---	---	---	260.811	260.936	260.824E	260.568	260.606	260.434	---	---	15
16	---	---	---	---	261.006	260.986	260.811	260.593	260.521E	260.436	---	---	16
17	---	---	---	---	260.988	260.936	260.891	260.628	260.436	260.456	---	---	17
18	---	---	---	---	260.911	260.916	260.849E	260.598E	260.456E	260.431	---	---	18
19	---	---	---	---	260.916	260.936E	260.806	260.568	260.476	260.433E	---	---	19
20	---	---	---	---	260.966	260.956	260.816	260.569E	260.466	260.434E	---	---	20
21	---	---	---	---	260.971E	260.946	260.798E	260.569	260.481E	260.436	---	---	21
22	---	---	---	---	260.976	260.976	260.779E	260.558	260.496	260.426	---	---	22
23	---	---	---	---	260.981E	260.906	260.761	260.508	260.486	260.406	---	---	23
24	---	---	---	---	260.986	260.906E	260.756	260.558	260.481E	260.426	---	---	24
25	---	---	---	---	260.986	260.906	260.776	260.563E	260.476	260.416	---	---	25
26	---	---	---	---	260.996E	260.896	260.736	260.567	260.526	260.386E	---	---	26
27	---	---	---	---	261.006	260.886E	260.756	260.597E	260.496E	260.356E	---	---	27
28	---	---	---	---	261.036	260.876	260.756E	260.627	260.466	260.326	---	---	28
29	---	---	---	---	261.026E	260.866	260.776	260.537	260.461E	260.364E	---	---	29
30	---	---	---	---	261.016	260.896	260.781	260.557	260.456	260.401	---	---	30
31	---	---	---	---	260.986		260.756E	260.547E		260.456			31
MEAN	---	---	---	---	260.886	260.956	260.821	260.617	260.505	260.429	---	---	MEAN
MAX	---	---	---	---	261.036	261.141	260.906	260.826	260.606	260.526	---	---	MAX
MIN	---	---	---	---	260.737	260.866	260.736	260.508	260.436	260.326	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 261.141 ON JUN 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 06 45 N
LONG 099 44 20 W
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 19
DRAINAGE AREA, 8 700 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

DAUPHIN LAKE AT OUTLET - STATION NO. 05LJ009

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	260.157	260.190	260.201	260.268	260.724	260.931	260.850	260.666	260.498	260.455	260.234	260.346	1
2	260.148	260.194	260.199	260.283	260.728	260.784	260.814	260.642	260.609	260.512	260.265	260.343	2
3	260.153	260.186	260.202	260.295	260.733	260.802	260.813	260.557	260.517	260.385	260.256	260.345	3
4	260.154	260.185	260.204	260.306	260.735	260.995	260.789	260.608	260.540	260.292	260.427	260.350	4
5	260.149	260.195	260.203	260.319	260.741	260.894	260.803	260.625	260.543	260.396	260.296	260.346	5
6	260.153	260.193	260.209	260.338	260.740	260.925	260.801	260.615	260.508	260.398	260.331	260.349	6
7	260.150	260.190	260.208	260.347	260.741	260.914	260.798	260.624	260.539	260.433	260.346	260.348	7
8	260.155	260.188	260.202	260.354	260.740	260.897	260.793	260.649	260.473	260.448	260.335	260.347	8
9	260.159	260.192	260.202	260.365	260.770	260.927	260.792	260.631	260.485	260.463	260.324	260.340	9
10	260.157	260.192	260.200	260.377	260.772	260.960	260.810	260.599	260.526	260.472	260.337	260.343	10
11	260.157	260.195	260.198	260.385	260.759	260.972	260.784	260.594	260.478	260.349	260.316	260.345	11
12	260.156	260.195	260.199	260.394	260.793	260.931	260.792	260.570	260.555	260.491	260.340	260.355	12
13	260.158	260.194	260.218	260.402	260.779	260.870	260.810	260.534	260.396	260.427	260.340	260.362	13
14	260.165	260.197	260.218	260.416	260.793	260.917	260.753	260.514	260.484	260.408	260.336	260.359	14
15	260.167	260.191	260.227	260.431	260.793	260.933	260.739	260.561	260.403	260.422	260.336	260.358	15
16	260.161	260.193	260.245	260.443	260.650	260.911	260.764	260.523	260.531	260.407	260.338	260.353	16
17	260.167	260.188	260.251	260.453	260.754	260.884	260.706	260.519	260.562	260.386	260.334	260.353	17
18	260.167	260.191	260.252	260.466	260.909	260.903	260.721	260.532	260.445	260.422	260.333	260.351	18
19	260.159	260.193	260.254	260.485	260.923	260.876	260.716	260.535	260.460	260.502	260.336	260.350	19
20	260.162	260.195	260.250	260.505	260.928	260.839	260.694	260.530	260.425	260.380	260.335	260.350	20
21	260.167	260.194	260.255	260.533	260.945	260.820	260.710	260.539	260.315	260.433	260.344	260.350	21
22	260.164	260.195	260.254	260.556	260.925	260.836	260.721	260.582	260.438	260.424	260.342	260.353	22
23	260.178	260.194	260.256	260.578	260.945	260.884	260.722	260.525	260.469	260.386	260.340	260.351	23
24	260.176	260.197	260.258	260.604	260.969	260.875	260.710	260.514	260.447	260.404	260.344	260.350	24
25	260.176	260.200	260.251	260.635	260.963	260.842	260.685	260.512	260.465	260.435	260.345	260.352	25
26	260.176	260.201	260.254	260.658	260.955	260.867	260.728	260.550	260.422	260.319	260.344	260.355	26
27	260.173	260.203	260.251	260.672	260.956	260.876	260.727	260.538	260.421	260.324	260.346	260.352	27
28	260.174	260.206	260.254	260.695	260.945	260.853	260.628	260.528	260.443	260.476	260.344	260.352	28
29	260.173		260.257	260.718	260.963	260.858	260.619	260.526	260.493	260.369	260.350	260.354	29
30	260.180		260.258	260.715	260.965	260.866	260.658	260.564	260.491	260.370	260.349	260.356	30
31	260.186		260.255		260.976		260.659	260.486		260.341		260.349	31
MEAN	260.164	260.194	260.231	260.467	260.839	260.891	260.748	260.558	260.480	260.414	260.331	260.351	MEAN
MAX	260.186	260.206	260.258	260.718	260.976	260.995	260.881	260.666	260.609	260.522	260.427	260.362	MAX
MIN	260.148	260.185	260.198	260.268	260.650	260.784	260.619	260.486	260.315	260.292	260.234	260.340	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 260.474
MAXIMUM DAILY, 260.995 ON JUN 04
MINIMUM DAILY, 260.148 ON JAN 02
MAXIMUM INSTANTANEOUS,
261.172 AT 16:16 CST ON JUN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 26 22 N
LONG 099 57 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
8 690 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DAUPHIN RIVER NEAR DAUPHIN RIVER - STATION NO. 05LM006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.98B	12.3B	17.1B	29.9B	82.8	71.0	66.4	71.2	61.3	49.6	32.1	23.2 B	1
2	9.77B	12.2B	16.1B	29.2B	83.6	48.2	63.4	70.9	65.3	50.7	27.8	22.1 B	2
3	9.71B	12.4B	15.3B	30.7B	85.3	35.8	58.7	66.7	64.5	46.5	28.4	24.0 B	3
4	9.57B	12.6B	16.6B	32.3B	83.7	49.5	54.9	62.3	61.1	42.2	24.2B	26.1 B	4
5	9.72B	12.7B	17.5B	31.3B	81.5	57.9	54.7	66.0	66.1	46.3	23.1B	25.3 B	5
6	9.78B	12.9B	17.2B	31.4B	81.4	58.9	62.7	67.2	62.8	44.6	22.8B	24.4 B	6
7	9.36B	13.2B	17.5B	34.0B	73.1	58.9	64.9	68.0	61.7	44.6	22.5B	24.1 B	7
8	9.07B	13.5B	17.8B	38.9B	71.5	53.7	64.8	66.9	61.9	45.4	22.5B	23.8 B	8
9	8.68B	13.8B	18.0B	41.7B	74.2	56.4	66.7	60.7	58.1	46.4	21.8B	23.8 B	9
10	8.82B	14.0B	16.0B	42.7B	79.6	59.2	66.6	59.3	60.3	52.5	21.6B	23.2 B	10
11	8.70B	14.1B	13.8B	43.3B	77.8	63.7	67.3	64.0	61.4	46.3	34.2B	23.1 B	11
12	8.56B	14.4B	17.3B	45.3B	77.2	60.6	68.1	65.5	56.6	45.6	44.3B	23.5 B	12
13	8.59B	14.5B	16.8B	48.3B	75.7	60.2	72.7	69.0	54.7	47.6	52.7B	20.6 B	13
14	8.67B	14.6B	17.5B	49.0B	74.8	50.0	75.0	63.7	53.2	43.8	43.9B	21.3 B	14
15	8.87B	14.8B	20.0B	50.3B	75.9	56.1	70.0	64.2	53.5	41.0	38.4B	22.0 B	15
16	8.99B	14.9B	20.0B	46.1B	70.1	59.2	71.1	62.2	53.8	40.8	37.5B	22.6 B	16
17	9.09B	14.8B	24.6B	48.4B	52.3	57.1	70.3	58.2	60.1	38.2	37.0	21.2 B	17
18	9.20B	14.9B	25.4B	52.3B	67.9	56.1	68.5	56.4	58.3	38.1	34.3	19.6 B	18
19	9.23B	15.0B	25.9B	52.2B	76.4	58.1	68.8	56.8	56.0	41.7	32.5	17.5 B	19
20	9.56B	15.2B	26.3B	51.8B	79.5	55.8	68.9	58.5	55.8	36.1	31.1	13.9 B	20
21	9.53B	15.3B	26.2B	56.8B	78.0	55.8	67.2	60.8	46.7	35.6	30.8	14.3 B	21
22	9.50B	15.8B	26.0B	95.1B	77.3	54.3	69.1	61.7	46.0	36.7	26.1	15.5 B	22
23	9.89B	15.7B	26.2B	88.2	72.8	55.8	71.5	64.4	52.2	34.3	17.7	15.5 B	23
24	10.3 B	16.3B	26.8B	85.5	72.1	58.9	72.4	62.3	51.7	32.6	25.1B	14.3 B	24
25	10.5 B	16.6B	26.9B	84.1	71.1	60.1	68.2	58.6		38.2	27.7B	13.9 B	25
26	10.7 B	16.5B	26.4B	80.8	68.8	57.8	66.1	58.7	52.0	37.5	26.6B	12.9 B	26
27	10.7 B	16.3B	26.9B	77.1	68.4	60.2	70.8	60.2	48.1	28.1	26.8B	11.9 B	27
28	11.0 B	16.8B	26.7B	76.9	61.4	60.5	69.6	61.9	49.0	34.3	26.2B	11.0 B	28
29	11.8 B		27.2B	83.1	60.3	59.2	63.4	64.2	48.8	37.0	25.9B	10.9 B	29
30	12.0 B		28.1B	82.6	64.0	61.0	65.7	65.2	51.6	35.5	25.9B	10.7 B	30
31	12.1 B		29.3B		67.6		70.0	66.3		35.6		9.62B	31
TOTAL	301.94	406.1	673.3	1 640.1	2 286.3	1 711.0	2 078.5	1 964.0	1 685.5	1 273.4	891.5	586.62	TOTAL
MEAN	9.74	14.5	21.7	54.7	73.8	57.0	67.0	63.4	56.2	41.1	29.7	18.9	MEAN
MAX	12.1	16.8	29.3	95.1	85.3	71.0	75.0	71.2	66.1	52.5	44.3	26.1	MAX
MIN	8.56	12.2	13.8	29.2	52.3	35.8	54.7	56.4	46.0	28.1	17.7	9.62	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 42.5
MAXIMUM DAILY, 95.1B ON APR 22
MINIMUM DAILY, 8.56B ON JAN 12
MAXIMUM INSTANTANEOUS,
105B AT 05:45 CST ON APR 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 00 00 N
LONG 098 19 20 W
DRAINAGE AREA, 82 400 km²

B - ICE CONDITIONS

REGULATED SINCE 1976

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	26 100	JUL	180 000
FEB	35 100	AUG	170 000
MAR	58 200	SEP	146 000
APR	142 000	OCT	110 000
MAY	198 000	NOV	77 000
JUN	148 000	DEC	50 700

TOTAL DISCHARGE, 1 340 000 dam³

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "DAUPHIN RIVER NEAR ANAMA BAY"

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF065

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.008B	0.009B	0 B	0.252E	0.314E	0.254E	1.09 E	0.008E	0.002E	0.001A	0.002E	0.002E	1
2	0.007B	0.008B	0 B	0.216E	0.339A	0.384E	0.993E	0.007E	0.001E	0.002E	0.002E	0.003E	2
3	0.007B	0.008B	0 B	0.191E	0.302E	0.515E	0.892E	0.007E	0.001E	0.003A	0.002E	0.003A	3
4	0.007B	0.007B	0 B	0.166E	0.260E	0.649E	0.790E	0.007E	0 A	0.003E	0.002E	0.003E	4
5	0.006B	0.006B	0 B	0.141E	0.223E	0.778E	0.687E	0.006E	0.001E	0.002E	0.002A	0.003E	5
6	0.006B	0.005B	0.002B	0.117A	0.186E	0.908E	0.585E	0.006E	0.001E	0.002E	0.002E	0.003E	6
7	0.006B	0.005B	0.005B	0.100E	0.149A	1.04 E	0.484E	0.006E	0 E	0.001E	0.002E	0.004E	7
8	0.007B	0.004B	0.008B	0.083E	0.139E	1.17 E	0.384E	0.005E	0 E	0.001E	0.001E	0.004E	8
9	0.007B	0.004B	0.001B	0.066A	0.129E	1.76 E	0.278A	0.005E	0 A	0 A	0.001E	0.004A	9
10	0.007B	0.004B	0.001B	0.062E	0.119E	2.36 E	0.270E	0.004E	0 A	0 E	0.001E	0.004E	10
11	0.007B	0.003B	0.002B	0.058E	0.110E	2.96 E	0.263E	0.004E	0 E	0 E	0.001E	0.004E	11
12	0.006B	0.003B	0.002B	0.054A	0.100E	3.52 E	0.256E	0.003E	0 E	0 E	0.001A	0.004E	12
13	0.006B	0.003B	0.033E	0.052E	0.091E	4.09 A	0.249E	0.003E	0 E	0 E	0.001E	0.004E	13
14	0.006B	0.003B	0.064A	0.050E	0.081E	3.50 E	0.241E	0.002E	0 E	0.001E	0.001E	0.004E	14
15	0.005B	0.002B	0.200A	0.047E	0.072E	2.92 E	0.234E	0.002E	0 E	0.002A	0.001E	0.004E	15
16	0.005B	0.002B	0.309E	0.045A	0.113E	2.33 E	0.227E	0.002E	0 E	0.003E	0.001E	0.004B	16
17	0.005B	0.002B	0.381A	0.069E	0.155E	1.74 E	0.220E	0.001E	0 E	0.002E	0.001E	0.004B	17
18	0.005B	0.002B	0.290E	0.094E	0.197E	1.17 A	0.212E	0.001E	0 E	0.002E	0.001E	0.004B	18
19	0.005B	0.001B	0.199A	0.119A	0.236E	2.38 E	0.205E	0.001E	0.001E	0.002E	0.001E	0.005B	19
20	0.005B	0.001B	0.149E	0.134E	0.276E	3.76 E	0.199E	0.001E	0.002E	0.002E	0.001E	0.005B	20
21	0.005B	0.001B	0.099A	0.147E	0.315E	5.54 E	0.191E	0 E	0.002E	0.002E	0.001E	0.006B	21
22	0.005B	0.001B	0.083E	0.161E	0.355E	8.02 E	0.184E	0 E	0.003E	0.002A	0.001E	0.006B	22
23	0.005B	0 B	0.067E	0.176E	0.395A	5.51 E	0.177E	0 E	0.003E	0.002E	0.002E	0.007B	23
24	0.005B	0 B	0.051E	0.194E	0.361E	3.50 E	0.170E	0 E	0.002A	0.002E	0.002E	0.007B	24
25	0.006B	0 B	0.037E	0.203E	0.327E	2.50 E	0.163E	0 E	0.002E	0.001E	0.002E	0.007B	25
26	0.007B	0 B	0.025A	0.212E	0.293E	2.00 E	0.156A	0.001E	0.001E	0.001E	0.002A	0.008B	26
27	0.008B	0 B	0.056E	0.221A	0.260E	1.50 E	0.126E	0.002E	0.001E	0 E	0.001E	0.008B	27
28	0.010B	0 B	0.087E	0.244E	0.226E	1.40 E	0.097E	0.002A	0.001E	0.001E	0.001E	0.009B	28
29	0.011B	0 B	0.127E	0.272E	0.194A	1.30 E	0.669E	0.003E	0.001E	0.002A	0.001E	0.009B	29
30	0.012B		0.163A	0.296E	0.160E	1.19 E	0.038E	0.003E	0.001E	0.003E	0.001E	0.010B	30
31	0.011B		0.297A		0.126E		0.008E	0.003E		0.002E		0.010B	31
TOTAL	0.010B												
	0.213	0.084	2.758	4.242	6.603	70.648	10.738	0.095	0.026	0.047	0.041	0.162	TOTAL
MEAN	0.007	0.003	0.089	0.141	0.213	2.35	0.346	0.003	0.001	0.002	0.001	0.005	MEAN
MAX	0.012	0.009	0.381	0.296	0.395	8.02	1.09	0.008	0.003	0.003	0.002	0.010	MAX
MIN	0.005	0	0	0.045	0.072	0.254	0.008	0	0	0	0.001	0.002	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.262
MAXIMUM DAILY, 8.02E ON JUN 22
MINIMUM DAILY, 0B ON FEB 23

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 04 N
LONG 095 53 10 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	18.4	JUL	928
FEB	7.26	AUG	8.21
MAR	238	SEP	2.25
APR	367	OCT	4.06
MAY	570	NOV	3.54
JUN	6 100	DEC	14.0

TOTAL DISCHARGE, 8 260 dam³

DEADHORSE CREEK AT MORDEN - STATION NO. 05OC015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.038B	0.002	0.002	0.002	0	0	0	---	---	1
2	---	---	0 B	0.027E	0.001	0.025	0.005	0	0	0	---	---	2
3	---	---	0 B	0.019E	0.012	0.019	0.014	0	0	0	---	---	3
4	---	---	0 B	0.011E	0.009	0.012	0.006	0	0	0	---	---	4
5	---	---	0 B	0.006E	0.003	0.012	0.003	0					5
6	---	---	0 B	0.004A	0.001	0.008	0.004	0	0	0	---	---	6
7	---	---	0 B	0.003	0.001	0.006	0.010	0	0	0	---	---	7
8	---	---	0 B	0.004	0.001	0.017	0.006	0	0	0	---	---	8
9	---	---	0 B	0.006	0.001	0.010	0.004	0	0	0	---	---	9
10	---	---	0 B	0.005	0.001	0.007	0.003	0					10
11	---	---	0.004B	0.004	0.001	0.015	0.003	0	0	0	---	---	11
12	---	---	0.010B	0.003	0.001	0.019	0.002	0	0	0	---	---	12
13	---	---	0.028B	0.003	0.001	0.030	0.001	0	0	0	---	---	13
14	---	---	0.036B	0.003	0.001	0.016	0.001	0	0	0	---	---	14
15	---	---	0.015B	0.002	0.001	0.011	0.001	0	0				15
16	---	---	0.015B	0.001	0.009	0.010	0.001	0	0	0	---	---	16
17	---	---	0.002B	0.001	0.007	0.012	0.001	0	0	0	---	---	17
18	---	---	0.001B	0.001	0.005	0.010	0.001	0	0	0	---	---	18
19	---	---	0.001B	0.001	0.005	0.008	0	0	0	0	---	---	19
20	---	---	0.002B	0.001	0.005	0.011	0	0	0				20
21	---	---	0.002B	0.001	0.004	0.009	0	0	0	0	---	---	21
22	---	---	0.001B	0.001	0.004	0.009	0	0	0	0	---	---	22
23	---	---	0.002B	0.001	0.003	0.011	0	0	0	0	---	---	23
24	---	---	0.001B	0.002	0.003	0.008	0	0	0	0	---	---	24
25	---	---	0.001B	0.003	0.002	0.006	0						25
26	---	---	0.001B	0.001	0.002	0.005	0	0	0	0	---	---	26
27	---	---	0.001B	0.001	0.002	0.004	0	0	0.007	0	---	---	27
28	---	---	0.004B	0.003	0.002	0.005	0	0	0.003	0	---	---	28
29	---	---	0.022B	0.003	0.002	0.004	0	0	0	0	---	---	29
30	---		0.083B	0.002	0.001	0.003	0	0	0	0	---	---	30
31	---		0.058B		0.001		0						31
TOTAL	---	---	0.290	0.161	0.094	0.324	0.068	0.010	0	0	---	---	TOTAL
MEAN	---	---	0.009	0.005	0.003	0.011	0.002	0	0	0	---	---	MEAN
MAX	---	---	0.083	0.038	0.012	0.030	0.014	0.007	0	0	---	---	MAX
MIN	---	---	0	0.001	0.001	0.002	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.004
MAXIMUM DAILY, 0.083B ON MAR 30
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.246B AT 19:26 CST ON MAR 30

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 47 N
LONG 098 06 38 W
DRAINAGE AREA, 138 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5.88
FEB	---	AUG	0.864
MAR	25.0	SEP	0
APR	13.9	OCT	0
MAY	8.12	NOV	---
JUN	28.0	DEC	---

TOTAL DISCHARGE, 81.8 dam³

DEADHORSE CREEK NEAR ROSENFELD - STATION NO. 05OC016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	2.31 B	0.006	0.285	0.173	0.136	0	0.022	---	---	1
2	---	---	0.001B	2.77 B	0.006	0.374	0.204	0.128	0	0.022	---	---	2
3	---	---	0.001B	2.23 B	0.010	0.421	3.59	0.114	0	0.025	---	---	3
4	---	---	0.001B	1.39 B	0.020	0.417	1.53	0.105	0	0.025	---	---	4
5	---	---	0.001B	1.14 B	0.028	0.403	0.870	0.094	0	0.022	---	---	5
6	---	---	0.002B	1.66 B	0.043	0.367	0.552	0.086	0	0.022	---	---	6
7	---	---	0.002B	1.13 B	0.036	0.319	0.774	0.071	0	0.017	---	---	7
8	---	---	0.002B	0.939B	0.035	0.449	1.09	0.054	0	0.016	---	---	8
9	---	---	0.002B	0.732B	0.021	0.766	0.727	0.046	0	0.014	---	---	9
10	---	---	0.002B	0.598B	0.014	0.834	0.493	0.036	0	0.012	---	---	10
11	---	---	0.002B	0.399B	0.010	0.701	0.336	0.026	0	0.012	---	---	11
12	---	---	0.021B	0.213B	0.006	4.46	0.227	0.026	0	0.008	---	---	12
13	---	---	0.103B	0.151B	0.005	13.4	0.174	0.022	0	0.007	---	---	13
14	---	---	0.042B	0.177B	0.005	11.7	0.146	0.021	0	0.008	---	---	14
15	---	---	0.510B	0.192B	0.004	8.09	0.138	0.017	0.077	0.006	---	---	15
16	---	---	0.899B	0.235B	0.019	2.97	0.130	0.017	0.127	0.004	---	---	16
17	---	---	0.787B	0.361B	0.150	1.38	0.133	0.013	0.106	0.004	---	---	17
18	---	---	0.563B	0.541B	0.028	1.04	0.118	0.009	0.119	0.004	---	---	18
19	---	---	0.308B	0.517	0.009	3.39	0.108	0.004	0.100	0.001	---	---	19
20	---	---	0.099B	0.373A	0.002	3.01	0.089	0	0.089	0.003	---	---	20
21	---	---	0.010B	0.231	0	1.82	0.259	0	0.076	0.003	---	---	21
22	---	---	0.005B	0.132	0	1.45	0.369	0	0.053	0.003	---	---	22
23	---	---	0.005B	0.074	0	1.07	0.349	0	0.046	0.003	---	---	23
24	---	---	0.005B	0.039	0	0.702	0.306	0	0.047	0.002	---	---	24
25	---	---	0.004B	0.023	0	0.501	0.255	0	0.042	0.001	---	---	25
26	---	---	0.004B	0.011	0	0.382	0.223	0	0.036	0.004	---	---	26
27	---	---	0.056B	0	0	0.272	0.209	0	0.033	0.006	---	---	27
28	---	---	0.100B	0	0	0.214	0.193	0	0.028	0	---	---	28
29	---	---	0.056B	0	0	0.186	0.175	0	0.028	0	---	---	29
30	---	---	0.288B	0.003	0.061	0.165	0.159	0	0.025	0 A	---	---	30
31	---	---	1.96 B		0.288		0.150	0		0 E		---	31
TOTAL	---	---	5.842	18.591	0.826	61.538	14.249	1.025	1.032	0.276	---	---	TOTAL
MEAN	---	---	0.189	0.620	0.027	2.05	0.460	0.033	0.034	0.009	---	---	MEAN
MAX	---	---	1.96	2.77	0.288	13.4	3.59	0.136	0.127	0.025	---	---	MAX
MIN	---	---	0.001	0	0	0.165	0.089	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.422
MAXIMUM DAILY, 13.4 ON JUN 13
MINIMUM DAILY, 0 ON APR 27
MAXIMUM INSTANTANEOUS,
17.1 AT 13:23 CST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 10 N
LONG 097 33 00 W
DRAINAGE AREA, 913 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 230
FEB	---	AUG	88.6
MAR	505	SEP	89.2
APR	1 610	OCT	23.8
MAY	71.4	NOV	---
JUN	5 320	DEC	---

TOTAL DISCHARGE, 8 940 dam³

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "HESPELER FLOODWAY NEAR ROSENFELD"

DEER RIVER NORTH OF BELCHER - STATION NO. 06FD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.930B	0.563B	0.284B	0.083B	---	---	21.1	16.1	7.75	11.0	15.6 B	3.64B	1
2	0.926B	0.549B	0.270B	0.081B	---	---	22.1	15.6	7.69	11.0	15.0 B	3.46B	2
3	0.917B	0.538B	0.265B	0.078B	---	---	28.2	17.3	7.56	11.0	14.5 B	3.31B	3
4	0.893B	0.521B	0.256B	0.075B	---	---	33.0	19.5	7.52	12.0	14.0 B	3.16B	4
5	0.875B	0.515B	0.245B	0.067B	---	47.2A	34.2	20.4	7.47	15.2	13.5 B	3.13B	5
6	0.870B	0.507B	0.240B	0.061B	---	45.1	32.4	19.9	7.51	17.8	13.0 B	3.07B	6
7	0.861B	0.493B	0.234B	0.058B	---	41.0	29.1	18.4	7.75	19.1	12.5 B	2.71B	7
8	0.856B	0.485B	0.226B	0.056B	---	38.0	25.8	17.1	8.35	19.1	12.0 B	2.51B	8
9	0.852B	0.471B	0.217B	0.050B	---	35.6	23.1	15.6	8.36	18.8	11.6 B	2.44B	9
10	0.847B	0.462B	0.212B	0.047B	---	32.2	21.5	14.4	8.18	18.5	11.1 B	2.32B	10
11	0.819B	0.457B	0.206B	0.042B	---	30.3	19.7	13.6	8.49	19.5	10.8 B	2.19B	11
12	0.805B	0.446B	0.195B	0.039B	---	32.9	18.3	12.4	8.53	22.2	10.1 B	2.11B	12
13	0.791B	0.435B	0.184B	0.033B	---	57.8	16.9	11.7	8.51	24.6	9.72B	2.03B	13
14	0.783B	0.423B	0.178B	0.031B	---	82.5	15.7	11.2	8.46	26.2	9.25B	1.92B	14
15	0.763B	0.409B	0.173B	0.028B	---	91.0	16.0	11.4	8.46	26.2	8.85B	1.88B	15
16	0.752B	0.401B	0.167B	0.025B	---	90.1	17.2	11.7	8.43	26.2	8.36B	1.79B	16
17	0.741B	0.393B	0.161B	0.022B	---	84.2	17.5	11.5	8.58	24.5	8.00B	1.70B	17
18	0.730B	0.387B	0.156B	0.019B	---	76.2	17.1	10.8	8.85	23.6B	7.54B	1.65B	18
19	0.719B	0.373B	0.150B	0.017B	---	67.5	16.3	10.1	9.08	22.8B	7.14B	1.58B	19
20	0.708B	0.359B	0.145B	0.014B	---	58.3	15.6	9.24	8.99	22.2B	6.59B	1.55B	20
21	0.697B	0.351B	0.134B	0.014B	---	49.8	15.1	8.67	8.73	21.7B	6.33B	1.47B	21
22	0.680B	0.345B	0.131B	0.014B	---	42.0	14.4	8.08	8.34	21.1B	6.18B	1.40B	22
23	0.669B	0.337B	0.128B	0.011B	---	35.5	13.9	7.71	8.03	20.5B	5.78B	1.36B	23
24	0.652B	0.323B	0.125B	0.011B	---	31.7	13.5	7.50	7.63	20.0B	5.41B	1.31B	24
25	0.638B	0.318B	0.122B	0.011B	---	29.6	14.4	7.43	7.51	19.4B	5.27B	1.25B	25
26	0.630B	0.309B	0.114B	0.011B	---	27.9	15.1	7.49	7.99	18.9B	4.90B	1.21B	26
27	0.624B	0.298B	0.111B	0.011B	---	26.3	14.8	7.32	8.89	18.3B	4.60B	1.18B	27
28	0.613B	0.292B	0.106B	0.008B	---	24.6	14.6	7.09	9.69	17.7B	4.37B	1.13B	28
29	0.596B		0.100B	0.008B	---	22.9	15.4	6.81	10.3	17.2B	4.13B	1.10B	29
30	0.582B		0.095B	0.005B	---	21.6	16.4	6.95	10.6	16.6B	4.04B	1.06B	30
31	0.568B		0.086B		---		17.1	7.59		16.1B		1.04B	31
TOTAL	23.387	11.760	5.416	1.030	---	---	605.1	370.58	252.23	599.0	270.16	61.66	TOTAL
MEAN	0.754	0.420	0.175	0.034	---	---	19.5	12.0	8.41	19.3	9.01	1.99	MEAN
MAX	0.930	0.563	0.284	0.083	---	---	34.2	20.4	10.6	26.2	15.6	3.64	MAX
MIN	0.568	0.292	0.086	0.005	---	---	13.3	6.81	7.47	11.0	4.04	1.04	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 91.0 ON JUN 15

MAXIMUM INSTANTANEOUS,
91.5 AT 10:51 CST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 00 54 N
LONG 094 11 44 W
DRAINAGE AREA, 1 880 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 020	JUL	52 300
FEB	1 020	AUG	32 000
MAR	468	SEP	21 800
APR	89.0	OCT	51 800
MAY	---	NOV	23 300
JUN	---	DEC	5 330

DELORAINE RESERVOIR NEAR DELORAINE - STATION NO. 05NG014

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	538.412	538.756	538.940	538.871	538.832	538.725	538.538	538.376	538.254	---
2	---	---	538.411	538.807	538.937	538.891	538.829	538.723	538.534	538.369	538.251	---
3	---	---	538.410	538.841	538.937	538.886	538.853	538.723	538.526	538.362	538.246	---
4	---	---	538.406	538.890	538.934	538.880	538.852	538.714	538.520	538.356	538.246	---
5	---	---	538.405	538.922	538.931	538.879	538.849	538.706	538.512	538.351	538.240	---
6	---	---	538.402	538.935	538.930	538.875	538.849	538.697	538.506	538.346	538.234A	---
7	---	---	538.403	538.942	538.924	538.872	538.873	538.686	538.503	538.342	---	---
8	---	---	538.406	538.947	538.918	538.872	538.871	538.672	538.494	538.339	---	---
9	---	---	538.405	538.950	538.910	538.870	538.867	538.664	538.491	538.335	---	---
10	---	---	538.408	538.955	538.905	538.867	538.859	538.656	538.485	538.332	---	---
11	---	---	538.412	538.957	538.898	538.860	538.854	538.653	538.474	538.324	---	---
12	---	---	538.429	538.958	538.891	538.853	538.849	538.648	538.466	538.321	---	---
13	---	---	538.450	538.959	538.889	538.844	538.843	538.639	538.456	538.316	---	---
14	---	---	538.459	538.958	538.884	538.833	538.834	538.625	538.449	538.312	---	---
15	---	---	538.476	538.960	538.886	538.823	538.828	538.623	538.442	538.307	---	---
16	---	---	538.488	538.959	538.911	538.818	538.821	538.610	538.436	538.304	---	---
17	---	---	538.485	538.958	538.925	538.873	538.811	538.599	538.434	538.298	---	---
18	---	---	538.482	538.961	538.931	538.804	538.804	538.592	538.442	538.297	---	---
19	---	---	538.483	538.956	538.936	538.892	538.798	538.586	538.437	538.292	---	---
20	---	---	538.480	538.954	538.939	538.895	538.791	538.580	538.434	538.286	---	---
21	---	---	538.479	538.952	538.936	538.891	538.785	538.573	538.431	538.283	---	---
22	---	---	538.477	538.951	538.932	538.885	538.780	538.572	538.425	538.279	---	---
23	---	---	538.474	538.949	538.929	538.880	538.774	538.582	538.421	538.276	---	---
24	---	---	538.474	538.947	538.923	538.875	538.766	538.578	538.414	538.275	---	---
25	---	---	538.473	538.953	538.915	538.870	538.755	538.577	538.406	538.272	---	---
26	---	538.422A	538.472	538.955	538.909	538.862	538.750	538.575	538.402	538.268	---	---
27	---	538.417	538.471	538.949	538.904	538.858	538.755	538.574	538.395	538.264	---	---
28	---	538.415	538.471	538.948	538.898	538.850	538.749	538.572	538.391	538.265	---	---
29	---		538.472	538.945	538.890	538.842	538.745	538.563	538.387	538.257	---	---
30	---		538.491	538.944	538.882	538.834	538.730	538.556	538.382	538.258	---	---
31	---		538.655		538.876		538.731	538.543		538.256		
MEAN	---	---	538.456	538.934	538.915	538.866	538.810	538.625	538.454	538.307	---	---
MAX	---	---	538.655	538.961	538.940	538.895	538.873	538.725	538.538	538.376	---	---
MIN	---	---	538.402	538.756	538.876	538.818	538.731	538.543	538.382	538.256	---	---

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 538.961 ON APR 18

MAXIMUM INSTANTANEOUS, 538.964 AT 12:45 CST ON APR 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 50 N
LONG 100 24 40 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 76.7 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1963 ADJ.)

DENNIS LAKE NEAR MALONTON - STATION NO. 05SB801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	265.572	265.527	265.523	265.493	265.344	265.298	---	---
2	---	---	---	---	265.566	265.527	265.517	265.487	265.334	265.298	---	---
3	---	---	---	---	265.557	265.527	265.511	265.487	265.322	265.295	---	---
4	---	---	---	---	265.545	265.527	265.499	265.490	265.322	265.307	---	---
5	---	---	---	---	265.545	265.527	265.496	265.484	265.319	265.307	---	---
6	---	---	---	---	265.548	265.517	265.508	265.478	265.313	265.301	---	---
7	---	---	---	---	265.548	265.517	265.563	265.469	265.313	265.301	---	---
8	---	---	---	---	265.542	265.569	265.569	265.463	265.310	265.298	---	---
9	---	---	---	---	265.530	265.560	265.563	265.456	265.307	265.301	---	---
10	---	---	---	---	265.536	265.542	265.554	265.450	265.307	265.301	---	---
11	---	---	---	---	265.563	265.542	265.569	265.444	265.301	265.298A	---	---
12	---	---	---	---	265.557	265.572	265.578	265.441	265.298	---	---	---
13	---	---	---	---	265.548	265.572	265.578	265.438	265.292	---	---	---
14	---	---	---	---	265.545	265.581	265.569	265.432	265.295	---	---	---
15	---	---	265.499A	---	265.548	265.566	265.563	265.432	265.295	---	---	---
16	---	---	---	---	265.542	265.557	265.563	265.429	265.295	---	---	---
17	---	---	---	---	265.533	265.554	265.572	265.432	265.292	---	---	---
18	---	---	---	---	265.530	265.551	265.566	265.429	265.286	---	---	---
19	---	---	---	---	265.527	265.545	265.563	265.420	265.292	---	---	---
20	---	---	---	---	265.508	265.542	265.554	265.417	265.292	---	---	---
21	---	---	---	---	265.520	265.557	265.551	265.414	265.292	---	---	---
22	---	---	---	---	265.587	265.563	265.548	265.408	265.313	---	---	---
23	---	---	---	---	265.501	265.560	265.539	265.398	265.313	---	---	---
24	---	---	---	265.548A	265.548	265.554	265.533	265.395	265.307	---	---	---
25	---	---	---	265.560	265.536	265.542	265.527	265.389	265.307	---	---	---
26	---	---	---	265.563	265.539	265.536	265.517	265.383	265.307	---	---	---
27	---	---	---	265.551	265.536	265.539	265.511	265.377	265.307	---	---	---
28	---	---	---	265.557	265.527	265.523	265.511	265.374	265.304	---	---	---
29	---		---	265.560	265.539	265.511	265.514	265.365	265.301	---	---	---
30	---		---	265.551	265.542	265.517	265.508	265.359	265.295	---	---	---
31	---		---		265.536		265.499	265.350		265.264A		
MEAN	---	---	---	---	265.545	265.544	265.540	265.428	265.306	---	---	---
MAX	---	---	---	---	265.587	265.581	265.578	265.493	265.344	---	---	---
MIN	---	---	---	---	265.508	265.511	265.496	265.350	265.286	---	---	---

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 265.587 ON MAY 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 34 44 N
LONG 097 21 24 W
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 287 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.59 B	0.085	0.028	0.223	0.051	0.028	0.026A	---	---	1
2	---	---	0 B	1.67 B	0.130	2.09	0.200	0.048	0.023	0.028	---	---	2
3	---	---	0 B	1.49 B	0.081	2.88	0.211	0.048	0.021	0.024	---	---	3
4	---	---	0 B	1.43 B	0.052	1.05	0.186	0.047	0.023	0.022	---	---	4
5	---	---	0 B	0.792B	0.059	0.585	0.190	0.038	0.025	0.021	---	---	5
6	---	---	0 B	0.817B	0.048	0.342	0.204	0.035	0.028	0.024	---	---	6
7	---	---	0 B	0.166B	0.099	0.243	0.242	0.032	0.025	0.023	---	---	7
8	---	---	0.001B	0.076B	0.069	0.446	0.238	0.028	0.020	0.024	---	---	8
9	---	---	0.009B	0.045B	0.050	0.920	0.216	0.025	0.024	0.043	---	---	9
10	---	---	0.051B	0.108B	0.048	0.729	0.207	0.022	0.022	0.046	---	---	10
11	---	---	0.142B	0.172B	0.041	0.754	0.195	0.020	0.022	0.025	---	---	11
12	---	---	0.127B	0.176B	0.039	1.57	0.179	0.022	0.024	0.022	---	---	12
13	---	---	0.117B	0.166B	0.035	1.13	0.172	0.024	0.019	0.031	---	---	13
14	---	---	0.097B	0.190B	0.034	0.716	0.160	0.026	0.024	0.065	---	---	14
15	---	---	0.078B	0.239B	0.036	0.562	0.168	0.025	0.023	0.074	---	---	15
16	---	---	0.232B	0.246B	0.041	0.323	0.162	0.024	0.022	0.048	---	---	16
17	---	---	0.179B	0.249B	0.072	0.243	0.162	0.019	0.024	0.032	---	---	17
18	---	---	0.246B	0.269B	0.090	0.214	0.159	0.018	0.030	0.030	---	---	18
19	---	---	0.302B	0.322B	0.082	0.210	0.155	0.020	0.028	0.027	---	---	19
20	---	---	0.172B	0.473B	0.078	1.16	0.147	0.022	0.022	0.092	---	---	20
21	---	---	0.166B	0.316	0.064	1.42	0.141	0.021	0.028	0.099	---	---	21
22	---	---	0.129B	0.214	0.073	1.04	0.141	0.021	0.034	0.022	---	---	22
23	---	---	0.105B	0.215	0.056	0.636	0.138	0.022	0.031	0.017	---	---	23
24	---	---	0.086B	0.163	0.046	0.381	0.133	0.022	0.027	0.017	---	---	24
25	---	---	0.074B	0.152	0.054	0.283	0.131	0.021	0.025	0.019	---	---	25
26	---	---	0.079B	0.136	0.091	0.218	0.121	0.020	0.026	0.022	---	---	26
27	---	---	0.086B	0.110	0.087	0.211	0.112	0.018	0.023	0.022	---	---	27
28	---	---	0.114B	0.093	0.061	0.243	0.141	0.023	0.022	0.021	---	---	28
29	---	---	0.217B	0.091	0.044	0.240	0.072	0.020	0.025A	0.021	---	---	29
30	---		0.586B	0.092	0.027	0.262	0.052	0.020	0.024A	0.021	---	---	30
31	---		2.10 B		0.026		0.060	0.026		0.025		---	31
TOTAL	---	---	5.495	12.296	1.898	21.129	5.026	0.828	0.742	1.033	---	---	TOTAL
MEAN	---	---	0.177	0.410	0.061	0.704	0.162	0.027	0.025	0.033	---	---	MEAN
MAX	---	---	2.10	1.67	0.130	2.88	0.242	0.051	0.034	0.099	---	---	MAX
MIN	---	---	0	0.045	0.026	0.028	0.052	0.018	0.019	0.017	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.198
MAXIMUM DAILY, 2.88 ON JUN 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
6.54 AT 23:32 CST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 11 40 N
LONG 096 42 50 W
DRAINAGE AREA, 239 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	434
FEB	---	AUG	71.5
MAR	475	SEP	64.1
APR	1 060	OCT	89.3
MAY	164	NOV	---
JUN	1 830	DEC	---

TOTAL DISCHARGE, 4 190 dam³

DOG LAKE NEAR VOGAR - STATION NO. 05LN005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	247.102	247.105	246.997	246.938	246.863	---	---	---	1
2	---	---	---	---	247.102	247.140	247.021	246.933	246.896	---	---	---	2
3	---	---	---	---	247.106	247.087	247.042	246.910	246.870	---	---	---	3
4	---	---	---	---	247.108	247.102	247.012	246.919	246.866	---	---	---	4
5	---	---	---	---	247.109	247.056	247.000	246.920	246.861	---	---	---	5
6	---	---	---	---	247.115	247.070	247.041	246.925	246.875	---	---	---	6
7	---	---	---	---	247.121	247.091	247.009	246.919	246.856	---	---	---	7
8	---	---	---	---	247.108	247.083	246.998	246.900	246.854	---	---	---	8
9	---	---	---	---	247.113	247.087	247.007	246.905	246.842	---	---	---	9
10	---	---	---	---	247.116	247.108	247.013	246.902	246.845	---	---	---	10
11	---	---	---	---	247.102	247.099	247.006	246.898	246.845	---	---	---	11
12	---	---	---	---	247.111	247.074	246.997	246.889	246.892	---	---	---	12
13	---	---	---	---	247.118	247.065	246.978	246.868	246.826	---	---	---	13
14	---	---	---	---	247.112	247.064	246.975	246.878	246.832	---	---	---	14
15	---	---	---	---	247.122	247.047	246.965	246.909	246.828	---	---	---	15
16	---	---	---	---	247.120	247.054	246.977	246.912	246.847	---	---	---	16
17	---	---	---	---	247.103	247.046	246.960	246.907	246.845	---	---	---	17
18	---	---	---	---	247.136	247.048	246.956	246.922	246.810	---	---	---	18
19	---	---	---	247.031A	247.141	247.042	246.954	246.889	246.823	---	---	---	19
20	---	---	---	247.041	247.141	247.012	246.951	246.883	246.832	---	---	---	20
21	---	---	---	247.047	247.150	247.023	246.961	246.885	246.778	---	---	---	21
22	---	---	---	247.052	247.133	247.027	246.957	246.888	246.827	---	---	---	22
23	---	---	---	247.057	247.142	247.028	246.963	246.880	246.833	---	---	---	23
24	---	---	---	247.065	247.157	247.025	246.962	246.884	246.818	---	---	---	24
25	---	---	---	247.070	247.152	247.013	246.970	246.895	246.829	---	---	---	25
26	---	---	---	247.073	247.132	247.017	246.977	246.901	246.834A	---	---	---	26
27	---	---	---	247.078	247.121	247.028	246.965	246.865	246.826E	---	---	---	27
28	---	---	---	247.089	247.148	247.012	246.921	246.867	246.818E	---	---	---	28
29	---		---	247.101	247.126	247.021	246.928	246.875	246.814E	---	---	---	29
30	---		---	247.101	247.116	247.019	246.922	246.896	246.810E	---	---	---	30
31	---		---		247.113		246.927	246.817		---		---	31
MEAN	---	---	---	---	247.123	247.056	246.978	246.896	246.840	---	---	---	MEAN
MAX	---	---	---	---	247.157	247.140	247.042	246.938	246.896	---	---	---	MAX
MIN	---	---	---	---	247.102	247.012	246.921	246.817	246.778	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 247.157 ON MAY 24

MAXIMUM INSTANTANEOUS,
247.210 AT 20:32 CST ON MAY 21

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1960 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 02 30 N
LONG 098 36 31 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
939 km²

EAGER LAKE NEAR TOD LAKE - STATION NO. 06EB007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	32.346E	32.318	32.463	---	32.533	32.471	---	---	---
2	32.561A	---	---	32.342E	32.312	32.471	---	32.556	32.469	---	---	---
3	---	---	---	32.341E	32.315	32.475	---	32.550	32.491	---	---	---
4	---	---	---	32.337E	32.317	32.475	---	32.527	32.481	---	---	---
5	---	---	---	32.336E	32.319	32.483	---	32.528	32.468	---	---	---
6	---	---	---	32.333E	32.323	32.488	---	32.524	32.455	---	---	---
7	---	---	---	32.331E	32.325	32.479	---	32.534	32.480	---	---	---
8	---	---	---	32.327E	32.329	32.484	---	32.534	32.479	---	---	---
9	---	---	---	32.327A	32.335	32.483	---	32.514	32.445	---	---	---
10	---	---	---	32.324	32.343	32.482	---	32.513	32.440	---	---	---
11	---	---	---	32.322	32.346	32.477	---	32.507	32.433	---	---	---
12	---	---	---	32.319	32.351	32.485	---	32.501	32.414	---	---	---
13	---	---	---	32.316	32.351	32.509	---	32.515	32.432	---	---	---
14	---	---	---	32.312	32.357	32.519	---	32.509	32.449	---	---	---
15	---	---	---	32.313	32.362	32.528	---	32.493	32.431	---	---	---
16	---	---	---	32.309	32.370	32.515	---	32.489	32.424	---	---	---
17	---	---	---	32.306	32.371	32.516	---	32.475	32.415A	---	---	---
18	---	---	---	32.304	32.376	32.527	---	32.464	---	---	---	---
19	---	---	---	32.304	32.394	32.523	---	32.466	---	---	---	---
20	---	---	---	32.295	32.399	32.522	---	32.470	---	---	---	---
21	---	---	---	32.299	32.409	32.513	---	32.462	---	---	---	---
22	---	---	---	32.299	32.420	32.508	---	32.458	---	---	---	---
23	---	---	---	32.310	32.427	32.512	---	32.476	---	---	---	---
24	---	---	---	32.312	32.432	32.513	---	32.477	---	---	---	---
25	---	---	---	32.312	32.438	32.507	---	32.466	---	---	---	---
26	---	---	---	32.308	32.446	32.506	---	32.461	---	---	---	---
27	---	---	---	32.304	32.441	32.500	---	32.458	---	---	---	---
28	---	---	---	32.305	32.442	32.502	---	32.464	---	---	---	---
29	---		---	32.319	32.446	32.518	---	32.461	---	---	---	---
30	---		---	32.321	32.454	32.531E	32.543A	32.457	---	---	---	---
31	---		---		32.454		32.528	32.471		---		---
MEAN	---	---	---	32.318	32.378	32.500	---	32.494	---	---	---	---
MAX	---	---	---	32.346	32.454	32.531	---	32.556	---	---	---	---
MIN	---	---	---	32.295	32.312	32.463	---	32.457	---	---	---	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 32 20 N
LONG 101 33 20 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
1 500 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0.064B	12.6 B	0.625	0.292	---	---	---	---	---	---
2	---	---	0.064B	12.6 B	0.610	0.358	---	---	---	---	---	---
3	---	---	0.070B	11.4 B	0.591	0.447	---	---	---	---	---	---
4	---	---	0.076B	9.58 B	0.525	0.435	---	---	---	---	---	---
5	---	---	0.082B	6.88 B	0.505	0.401	---	---	---	---	---	---
6	---	---	0.089B	4.73 B	0.476	0.344E	---	---	---	---	---	---
7	---	---	0.095B	3.63 B	0.457	0.260E	---	---	---	---	---	---
8	---	---	0.090B	2.52 B	0.535	0.260E	---	---	---	---	---	---
9	---	---	0.085B	2.34 B	0.632	0.260E	---	---	---	---	---	---
10	---	---	0.067B	2.17 B	0.631	0.291E	---	---	---	---	---	---
11	---	---	0.056B	1.88 B	0.511	0.372E	---	---	---	---	---	---
12	---	---	0.067B	1.81 B	0.465	0.571E	---	---	---	---	---	---
13	---	---	0.125B	2.17 B	0.428	0.791E	---	---	---	---	---	---
14	---	---	0.258B	2.68 B	0.386	1.07 E	---	---	---	---	---	---
15	---	---	0.343B	2.18 B	0.382	0.994E	---	---	---	---	---	---
16	---	---	0.440B	1.50 B	0.494	0.924E	---	---	---	---	---	---
17	---	---	0.375B	1.44 B	1.36	0.661E	---	---	---	---	---	---
18	---	---	0.495B	1.57 B	1.46	0.483E	---	---	---	---	---	---
19	---	---	0.387B	2.37	1.08	0.434E	---	---	---	---	---	---
20	---	---	0.437B	2.28	0.752	0.448E	---	---	---	---	---	---
21	---	---	0.405B	1.85	0.591	0.520E	---	---	---	---	---	---
22	---	---	0.317B	1.51	0.531	0.689E	---	---	---	---	---	---
23	---	---	0.256B	1.34	0.551	0.924E	---	---	---	---	---	---
24	---	---	0.206B	1.18	0.595	0.889E	---	---	---	---	---	---
25	---	---	0.180B	1.24	0.476	0.540E	---	---	---	---	---	---
26	---	---	0.132B	1.68	0.358	0.483E	---	---	---	---	---	---
27	---	---	0.091B	1.14	0.343	0.465E	---	---	---	---	---	---
28	---	---	0.075B	0.823	0.332	0.448E	---	---	---	---	---	---
29	---	---	0.134B	0.679	0.344	0.415E	---	---	---	---	---	---
30	---		0.649B	0.657	0.315	0.386E	---	---	---	---	---	---
31	---		4.56 B		0.277		---	---	---	---	---	---
TOTAL	---	---	10.770	100.429	17.618	15.855	---	---	---	---	---	---
MEAN	---	---	0.347	3.35	0.568	0.529	---	---	---	---	---	---
MAX	---	---	4.56	12.6	1.46	1.07	---	---	---	---	---	---
MIN	---	---	0.056	0.657	0.277	0.260	---	---	---	---	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.19
MAXIMUM DAILY, 12.6B ON APR 01
MINIMUM DAILY, 0.056B ON MAR 11
MAXIMUM INSTANTANEOUS,
14.3 AT 20:20 CST ON APR 01

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 13 00 N
LONG 097 32 00 W
DRAINAGE AREA, 390 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	931	SEP	---
APR	8 680	OCT	---
MAY	1 520	NOV	---
JUN	1 370	DEC	---

TOTAL DISCHARGE, 12 500 d

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	15.8 B	1.69	1.52	0.343	0.044	0.017	0.022E	---	---	1
2	---	---	0 B	8.16 B	1.80	2.47	0.309	0.033	0	0.061E	---	---	2
3	---	---	0 B	10.8 B	1.98	1.60	0.404	0.039	0	0.152E	---	---	3
4	---	---	0 B	7.52 B	2.95	1.22	0.465	0.018	0	0.204E	---	---	4
5	---	---	0 B	5.77 B	3.94	1.34	0.493	0.004	0 A	0.225E	---	---	5
6	---	---	0 B	2.19 B	4.49	1.60	0.521	0	0 A	0.209E	---	---	6
7	---	---	0 B	1.54 B	4.36	1.21	1.05	0	0 A	0.189E	---	---	7
8	---	---	0 B	1.33 B	4.09	3.40	1.01	0	0 A	0.168E	---	---	8
9	---	---	0 B	0.970B	3.57	3.88	0.777	0	0 A	0.121E	---	---	9
10	---	---	0 B	0.882B	3.64	2.25	0.499	0	0 E	0.071E	---	---	10
11	---	---	0 B	0.445B	3.94	1.54	0.339	0	0 E	0.045A	---	---	11
12	---	---	0.152B	0.752B	3.56	1.17	0.289	0	0 E	0.031E	---	---	12
13	---	---	1.52 B	1.59 B	2.60	0.988	0.254	0	0 E	0.026A	---	---	13
14	---	---	4.39 B	1.22 B	2.04	0.890	0.224	0	0 E	0.028E	---	---	14
15	---	---	0.220B	1.02 B	1.77	0.795	0.210	0	0 E	0.027E	---	---	15
16	---	---	0.012B	0.967B	17.9	0.745	0.201	0.002	0 A	0.018E	---	---	16
17	---	---	0.010B	1.50 B	21.3	0.597	0.334	0.001	0 A	0.016E	---	---	17
18	---	---	0.006B	1.79 B	10.5	0.590	0.350	0.001	0 A	0.014E	---	---	18
19	---	---	0.003B	3.08	6.67	0.597	0.230	0	0.017A	0.017E	---	---	19
20	---	---	0 B	3.92	4.82	1.67	0.193	0.007	0.057	0.067E	---	---	20
21	---	---	0 B	7.33	3.73	1.99	0.262	0.007	0.081	0.059E	---	---	21
22	---	---	0 B	11.4	3.81	1.33	0.178	0.023	0.046	0.045E	---	---	22
23	---	---	0 B	14.4	3.57	0.803	0.162	0.013	0.031	0.040E	---	---	23
24	---	---	0 B	15.2	2.79	0.656	0.163	0.003	0.019	0.034E	---	---	24
25	---	---	0 B	12.0	2.28	0.528	0.179	0.039	0.020	0.028E	---	---	25
26	---	---	0 B	7.75	1.83	0.450	0.131	0.059	0.025A	0.033A	---	---	26
27	---	---	0 B	2.80 B	1.53	0.402	0.107	0.053	0.028E	0.027E	---	---	27
28	---	---	0 B	1.51 B	1.31	0.472	0.072	0.053	0.024E	0.020E	---	---	28
29	---	---	0 B	1.63 B	1.16	0.473	0.051	0.057	0.020E	0.016E	---	---	29
30	---		0.556B	2.37 B	1.03	0.393	0.043	0.044	0.023E	0.009E	---	---	30
31	---		4.23 B		0.939		0.041	0.029		0.007A		---	31
TOTAL	---	---	11.099	148.844	131.589	37.469	9.884	0.529	0.408	2.029	---	---	TOTAL
MEAN	---	---	0.358	4.96	4.24	1.25	0.319	0.017	0.014	0.066	---	---	MEAN
MAX	---	---	4.39	15.8	21.3	3.88	1.05	0.059	0.081	0.225	---	---	MAX
MIN	---	---	0	0.445	0.939	0.393	0.041	0	0	0.007	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.40
MAXIMUM DAILY, 21.3 ON MAY 17
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
41.3 AT 22:10 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 08 30 N
LONG 099 55 20 W
DRAINAGE AREA, 311 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	854
FEB	---	AUG	45.7
MAR	959	SEP	35.2
APR	12 900	OCT	175
MAY	11 400	NOV	---
JUN	3 240	DEC	---

TOTAL DISCHARGE, 29 600 dam³

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.23 B	0	0	0	0.004	0	0	---	---	1
2	---	---	0 B	3.74 B	0	0	0	0.007	0	0	---	---	2
3	---	---	0 B	3.04 B	0	0	0.034	0.002	0	0	---	---	3
4	---	---	0 B	1.88 B	0	0	0.038	0	0	0	---	---	4
5	---	---	0 B	1.32 B	0	0	0.025	0	0	0	---	---	5
6	---	---	0 B	0.754	0	0	0.009	0	0	0	---	---	6
7	---	---	0 B	0.591	0	0	0.190	0	0	0	---	---	7
8	---	---	0 B	0.401	0	0	1.65	0	0	0	---	---	8
9	---	---	0.001B	0.331	0	0	1.14	0	0	0	---	---	9
10	---	---	0.001B	0.291	0	0	0.773	0	0	0	---	---	10
11	---	---	0 B	0.220	0	0	0.592	0	0	0	---	---	11
12	---	---	0.001B	0.172	0	0	1.03	0	0	0	---	---	12
13	---	---	0 B	0.131	0	0	0.746	0	0	0	---	---	13
14	---	---	0 B	0.105	0	0	0.508	0	0	0	---	---	14
15	---	---	0 B	0.086	0	0	0.370	0	0	0	---	---	15
16	---	---	0 B	0.062	0.015	0	0.267	0	0	0	---	---	16
17	---	---	0.004B	0.033	0.021	0	0.219	0	0	0	---	---	17
18	---	---	0.020B	0.030	0.011	0.987	0.155	0	0	0	---	---	18
19	---	---	0.016B	0.032	0.006	0.737	0.119	0	0	0	---	---	19
20	---	---	0.010B	0.026	0.002	0.451	0.100	0	0	0	---	---	20
21	---	---	0.005B	0.020	0.001	0.301	0.082	0	0	0	---	---	21
22	---	---	0.003B	0.018	0.005	0.193	0.060	0	0	0	---	---	22
23	---	---	0.001B	0.013	0.039	0.108	0.040	0	0	0	---	---	23
24	---	---	0 B	0.005	0.036	0.076	0.023	0	0	0	---	---	24
25	---	---	0 B	0.006	0.023	0.052	0.016	0	0	0	---	---	25
26	---	---	0 B	0.006	0.014	0.034	0.026	0	0	0	---	---	26
27	---	---	0 B	0.002	0.008	0.010	0.039	0	0	0	---	---	27
28	---	---	0 B	0.001	0.003	0.003	0.033	0	0	0	---	---	28
29	---	---	0.005B	0	0		0.028	0	0	0	---	---	29
30	---		0.251B	0	0	0	0.017	0	0	0	---	---	30
31	---		1.10 B		0		0.010	0		0		---	31
TOTAL	---	---	1.418	14.546	0.184	2.952	8.339	0.013	0	0	---	---	TOTAL
MEAN	---	---	0.046	0.485	0.006	0.098	0.269	0	0	0	---	---	MEAN
MAX	---	---	1.10	3.74	0.039	0.987	1.65	0.007	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.112
MAXIMUM DAILY, 3.74B ON APR 02
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
5.73B AT 03:09 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 28 N
LONG 100 14 05 W
DRAINAGE AREA, 1 170 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	720
FEB	---	AUG	1.12
MAR	123	SEP	0
APR	1 260	OCT	0
MAY	15.9	NOV	---
JUN	255	DEC	---

TOTAL DISCHARGE, 2 380 dam³

ELGIN RESERVOIR NEAR ELGIN - STATION NO. 05NG803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	466.957A	466.936	466.873	466.907	466.758	466.629	466.556E	---	1
2	---	---	---	467.126A	466.957	466.939	466.876	466.905	466.752	466.626	466.556	---	2
3	---	---	---	---	466.958	466.933	466.894	466.899	466.747	466.622	466.556E	---	3
4	---	---	---	---	466.958	466.930	466.913	466.891	466.744	466.614	466.556E	---	4
5	---	---	---	---	466.957	466.928	466.908	466.882	466.739	466.611	466.556E	---	5
6	---	---	---	---	466.957	466.921	466.908	466.874	466.736	466.607	466.556E	---	6
7	---	---	---	---	466.957	466.915	466.946	466.865	466.733	466.604	466.556E	---	7
8	---	---	---	---	466.954	466.917	467.016	466.853	466.726	466.601	466.556E	---	8
9	---	---	---	---	466.952	466.917	467.008	466.845	466.720	466.597	466.556A	---	9
10	---	---	---	---	466.951	466.919	466.988	466.839	466.714	466.594	---	466.511A	10
11	---	---	---	---	466.949	466.918	466.980	466.835	466.707	466.589	---	---	11
12	---	---	---	---	466.954	466.921	466.976	466.833	466.701	466.585	---	---	12
13	---	---	---	---	466.955	466.922	466.971	466.825	466.693	466.582	---	---	13
14	---	---	---	---	466.961	466.916	466.967	466.819	466.687	466.579	---	---	14
15	---	---	---	---	466.989	466.915	466.967	466.818	466.683	466.576	---	---	15
16	---	---	---	---	466.997	466.914	466.969	466.811	466.679	466.574	---	---	16
17	---	---	---	---	466.993	466.922	466.971	466.802	466.675	466.571	---	---	17
18	---	---	---	---	466.987	466.927	466.972	466.803	466.674	466.570	---	---	18
19	---	---	---	---	466.985	466.930	466.968	466.802	466.670	466.568	---	---	19
20	---	---	---	---	466.980	466.927	466.961	466.801	466.666	466.565	---	---	20
21	---	---	---	---	466.977	466.924	466.956	466.798	466.661	466.562	---	---	21
22	---	---	---	---	466.976	466.920	466.951	466.799	466.656	466.559	---	---	22
23	---	---	---	---	466.973	466.915	466.947	466.806	466.652	466.557	---	---	23
24	---	---	---	---	466.967	466.909	466.941	466.799	466.648	466.557	---	---	24
25	---	---	---	---	466.962	466.904	466.937	466.795	466.643	466.559	---	---	25
26	---	---	---	---	466.960	466.898	466.935	466.792	466.638	466.559E	---	---	26
27	---	---	---	---	466.957	466.892	466.946	466.788	466.633	466.558E	---	---	27
28	---	---	---	---	466.954	466.887	466.935	466.786	466.633	466.558E	---	---	28
29	---	---	---	---	466.948	466.882	466.928	466.781	466.635	466.557E	---	---	29
30	---	---	---	---	466.943	466.874	466.922	466.776	466.632	466.557E	---	---	30
31	---	---	---	---	466.940		466.915	466.766		466.556E	---	---	31
MEAN	---	---	---	---	466.963	466.916	466.947	466.826	466.688	466.581	---	---	MEAN
MAX	---	---	---	---	466.997	466.939	467.016	466.907	466.758	466.629	---	---	MAX
MIN	---	---	---	---	466.940	466.874	466.873	466.766	466.632	466.556	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 26 30 N
LONG 100 14 13 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1966
DRAINAGE AREA,
879 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

ELM CREEK CHANNEL NEAR ELM CREEK - STATION NO. 05OG005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.87 B	0.050E	0	0.023	---	---	---	---	---	1
2	---	---	0 B	1.97 B	0.045E	0	0.013	---	---	---	---	---	2
3	---	---	0 B	4.07 B	0.040E	0	0.011	---	---	---	---	---	3
4	---	---	0 B	3.38 B	0.038E	0	0.008	---	---	---	---	---	4
5	---	---	0 B	0.439B	0.059E	0.015	0	---	---	---	---	---	5
6	---	---	0 B	0.472B	0.095E	0.021	0.001	---	---	---	---	---	6
7	---	---	0 B	1.35 B	0.097E	0.018	0.018	---	---	---	---	---	7
8	---	---	0 B	1.76 B	0.030A	0.034A	0.009	---	---	---	---	---	8
9	---	---	0 B	1.40 B	0	0.088E	---	---	---	---	---	---	9
10	---	---	0 B	1.21 B	0	0.336E	---	---	---	---	---	---	10
11	---	---	0 B	1.06 B	0	0.276E	---	---	---	---	---	---	11
12	---	---	0 B	0.874B	0	0.145	---	---	---	---	---	---	12
13	---	---	0 B	0.728B	0	0.044	---	---	---	---	---	---	13
14	---	---	0.001B	0.592B	0	0.023	---	---	---	---	---	---	14
15	---	---	0.003B	0.403B	0	0.021	---	---	---	---	---	---	15
16	---	---	0.008B	0.316B	0	0.014	---	---	---	---	---	---	16
17	---	---	0.010B	0.303B	0	0.003	---	---	---	---	---	---	17
18	---	---	0.008B	0.246B	0.026	0.006	---	---	---	---	---	---	18
19	---	---	0.009B	0.211B	0.055	0.071	---	---	---	---	---	---	19
20	---	---	0.007B	0.158B	0.030	0.358	---	---	---	---	---	---	20
21	---	---	0.004B	0.104E	0.018	0.483	---	---	---	---	---	---	21
22	---	---	0.002B	0.068E	0.018	0.360	---	---	---	---	---	---	22
23	---	---	0 B	0.050E	0.003	0.330	---	---	---	---	---	---	23
24	---	---	0 B	0.035E	0	0.382	---	---	---	---	---	---	24
25	---	---	0 B	0.025E	0	0.328	---	---	---	---	---	---	25
26	---	---	0 B	0.020E	0	0.229	---	---	---	---	---	---	26
27	---	---	0 B	0.015E	0	0.135	---	---	---	---	---	---	27
28	---	---	0.013B	0.016E	0	0.087	---	---	---	---	---	---	28
29	---	---	0.050B	0.017E	0	0.051	---	---	---	---	---	---	29
30	---		0.171B	0.059E	0	0.036	---	---	---	---	---	---	30
31	---		0.869B		0		---	---		---	---	---	31
TOTAL	---	---	1.155	24.221	0.604	3.894	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.037	0.807	0.020	0.130	---	---	---	---	---	---	MEAN
MAX	---	---	0.869	4.07	0.097	0.483	---	---	---	---	---	---	MAX
MIN	---	---	0	0.015	0	0	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.245
MAXIMUM DAILY, 4.07B ON APR 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.83 AT 11:45 CST ON APR 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 42 N
LONG 097 58 57 W
DRAINAGE AREA, 627 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	99.8	SEP	---
APR	2 090	OCT	---
MAY	52.2	NOV	---
JUN	336	DEC	---

TOTAL DISCHARGE, 2 580 dam³

REMARKS - PREVIOUS TO 1986 PUBLISHED UNDER THE NAME "ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK"

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.356B	0.014	0	0	---	---	---	---	---	1
2	---	---	0 B	0.874B	0.014	0	0	---	---	---	---	---	2
3	---	---	0 B	2.00 B	0.015	0	0	---	---	---	---	---	3
4	---	---	0 B	1.73 B	0.016	0.006	0	---	---	---	---	---	4
5	---	---	0 B	0.108B	0.025	0.008	0	---	---	---	---	---	5
6	---	---	0 B	0.160B	0.035	0.010	0	---	---	---	---	---	6
7	---	---	0 B	0.508B	0.011	0.008	0	---	---	---	---	---	7
8	---	---	0 B	1.01 B	0.005	0.016	0	---	---	---	---	---	8
9	---	---	0 B	0.894B	0.001	0.076	---	---	---	---	---	---	9
10	---	---	0 B	0.722B	0	0.181	---	---	---	---	---	---	10
11	---	---	0 B	0.576B	0	0.105	---	---	---	---	---	---	11
12	---	---	0 B	0.462B	0	0.071	---	---	---	---	---	---	12
13	---	---	0 B	0.402B	0	0.042	---	---	---	---	---	---	13
14	---	---	0 B	0.326B	0	0.026	---	---	---	---	---	---	14
15	---	---	0.001B	0.282B	0	0.022	---	---	---	---	---	---	15
16	---	---	0.003B	0.225B	0	0.014	---	---	---	---	---	---	16
17	---	---	0.005B	0.196B	0.001	0.009	---	---	---	---	---	---	17
18	---	---	0.003B	0.123B	0.010	0.006	---	---	---	---	---	---	18
19	---	---	0.004B	0.064B	0.016	0.023	---	---	---	---	---	---	19
20	---	---	0.002B	0.031B	0.009	0.317	---	---	---	---	---	---	20
21	---	---	0.001B	0.019B	0.004	0.276	---	---	---	---	---	---	21
22	---	---	0 B	0.013B	0.002	0.069	---	---	---	---	---	---	22
23	---	---	0 B	0.009	0	0.026	---	---	---	---	---	---	23
24	---	---	0 B	0.005	0	0.013	---	---	---	---	---	---	24
25	---	---	0 B	0.008	0	0.004	---	---	---	---	---	---	25
26	---	---	0 B	0.006	0	0	---	---	---	---	---	---	26
27	---	---	0 B	0.004	0	0	---	---	---	---	---	---	27
28	---	---	0.004B	0.006	0	0	---	---	---	---	---	---	28
29	---	---	0.015B	0.007	0	0	---	---	---	---	---	---	29
30	---		0.042B	0.020	0	0	---	---	---	---	---	---	30
31	---		0.105B		0		---	---		---		---	31
TOTAL	---	---	0.185	11.146	0.178	1.328	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.006	0.372	0.006	0.044	---	---	---	---	---	---	MEAN
MAX	---	---	0.105	2.00	0.035	0.317	---	---	---	---	---	---	MAX
MIN	---	---	0	0.004	0	0	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.105
MAXIMUM DAILY, 2.00B ON APR 03
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 54 N
LONG 098 00 20 W
DRAINAGE AREA, 420 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	16.0	SEP	---
APR	963	OCT	---
MAY	15.4	NOV	---
JUN	115	DEC	---

TOTAL DISCHARGE, 1 110 dam³

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.013B	0	0	0	0	0	0	---	---	1
2	---	---	0 B	0.007B	0	0	0	0	0	0	---	---	2
3	---	---	0 B	0.011B	0	0	0	0	0	0	---	---	3
4	---	---	0 B	0.006B	0	0	0	0	0	0	---	---	4
5	---	---	0 B	0.002B	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0.002B	0	0	0	0	0	0	---	---	6
7	---	---	0.003B	0.001B	0	0	0	0	0	0	---	---	7
8	---	---	0.005B	0 B	0	0	0	0	0	0	---	---	8
9	---	---	0.007B	0 B	0	0	0	0	0	0	---	---	9
10	---	---	0.010B	0 B	0	0	0	0	0	0	---	---	10
11	---	---	0.013B	0 B	0	0	0	0	0	0	---	---	11
12	---	---	0.015B	0 B	0	0	0	0	0	0	---	---	12
13	---	---	0.019B	0 B	0	0	0	0	0	0	---	---	13
14	---	---	0.024B	0 B	0	0	0	0	0	0	---	---	14
15	---	---	0.010B	0	0	0	0	0	0	0	---	---	15
16	---	---	0.008B	0	0	0	0	0	0	0	---	---	16
17	---	---	0.007B	0	0	0	0	0	0	0	---	---	17
18	---	---	0.006B	0	0	0	0	0	0	0	---	---	18
19	---	---	0.006B	0	0	0	0	0	0	0	---	---	19
20	---	---	0.006B	0	0	0	0	0	0	0	---	---	20
21	---	---	0.007B	0	0	0	0	0	0	0	---	---	21
22	---	---	0.007B	0	0	0	0	0	0	0	---	---	22
23	---	---	0.005B	0	0	0	0	0	0	0	---	---	23
24	---	---	0.005B	0	0	0	0	0	0	0	---	---	24
25	---	---	0.005B	0	0	0	0	0	0	0	---	---	25
26	---	---	0.004B	0	0	0	0	0	0	0	---	---	26
27	---	---	0.004B	0	0	0	0	0	0	0	---	---	27
28	---	---	0.005B	0	0	0	0	0	0	0	---	---	28
29	---	---	0.010B	0	0	0	0	0	0	0	---	---	29
30	---		0.030B	0	0	0	0	0	0	0	---	---	30
31	---		0.023B		0		0	0		0		---	31
TOTAL	---	---	0.244	0.042	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.008	0.001	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.030	0.013	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.001
MAXIMUM DAILY, 0.030B ON MAR 30
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.067B AT 18:23 CST ON MAR 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 44 28 N
LONG 099 19 50 W
DRAINAGE AREA, 403 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	21.1	SEP	0
APR	3.63	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 24.7 dam³

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	33.2E	34.5B	32.8	35.3	41.5	51.3	66.9	86.2	61.1	33.1	24.9	28.6B	1
2	33.1A	35.4B	32.6	35.9	41.3	47.5	80.3	84.9	67.1	32.9	29.3	26.9	2
3	32.8E	34.5	32.4	36.3	41.9	34.5	75.1	77.1	65.0	30.0	25.8	26.2	3
4	32.5E	33.9	32.1	34.7	41.8	46.8	78.1	71.8	65.3	36.0	27.3	28.3	4
5	32.3A	33.3	32.5	34.7	41.5	49.3	83.0	76.0	69.9	29.0	25.1	28.2	5
6	32.3E	33.4	32.9	35.3	40.8	49.6	87.8	76.2	57.0	27.8	22.9	28.0	6
7	32.3E	32.9	33.1	35.7	38.6	45.2	88.4	81.8	68.0	29.0	33.7	27.9	7
8	32.3A	32.5	33.0	35.6	39.8	45.2	90.7	75.1	57.5	29.3	26.7	28.1	8
9	33.0E	32.7	34.5	35.2	40.5	49.6	87.8	67.1	59.3	33.5	24.8	27.9	9
10	33.7E	33.2	33.3	35.1	42.1	51.2	85.6	67.9	62.7	41.0	27.9	27.6	10
11	34.3E	32.3	32.6	35.7	41.7	59.0	85.1	77.1	49.2	39.0	22.8	27.3	11
12	34.8A	29.2B	32.2	35.5	42.3	58.7	89.0	77.6	41.6	36.2	23.5	27.1	12
13	34.0E	31.9B	34.0	35.4	41.6	57.6	96.3	81.4	36.8	34.4	25.5	26.9	13
14	33.1E	32.6B	33.7	35.8	42.3	66.9	92.8	73.7	44.2	31.4	25.3	27.0	14
15	32.3A	34.0	32.9	36.1	43.0	95.1	89.9	70.9	32.7	31.9	25.6	26.4	15
16	32.8A	33.8	34.2	35.7	37.8	91.3	89.0	60.4	40.7	27.7	25.9	26.5	16
17	32.0	33.7	35.4	36.3	37.9	86.9	89.3	57.6	49.4	24.4	26.3	26.0B	17
18	32.3	33.9	36.1	37.1	43.0	83.8	89.1	55.8	44.6	28.2	26.2	25.4B	18
19	31.9	34.0	36.7	37.2	45.3	69.2	84.1	64.3	42.2	32.0	26.4	25.9B	19
20	32.0	33.7	35.5	36.4	48.0	72.3	77.6	67.9	37.6	28.4	26.0	25.6B	20
21	32.2	33.0	35.7	37.1	48.6	76.3	74.6	71.0	29.1	30.4	25.6B	25.6B	21
22	31.7	32.3	36.1	36.3	50.7	71.5	78.7	77.4	30.6	27.5	25.3B	25.6B	22
23	31.5	32.0	37.2	36.6	48.7	77.5	83.6	74.7	38.9	29.1	24.6B	26.2B	23
24	32.1	31.9	37.3	36.5	48.3	74.8	85.0	70.5	37.9	29.3	24.7B	26.3B	24
25	32.0	34.1	36.1	36.6	48.2	75.0	76.1	62.5	38.0	35.5	24.8B	26.6B	25
26	32.5	32.9	36.2	36.5	48.6	78.4	82.3	62.9	34.8	31.7	26.8B	26.6B	26
27	33.2	32.8	35.8	35.3	47.7	75.1	91.5	67.6	28.7	26.2	27.4	26.3B	27
28	33.8	32.9	35.8	35.2	42.8	74.3	88.5	69.6	27.7	35.5	28.0	25.9B	28
29	33.6B		36.4	36.7	46.8	74.3	76.8	67.6	30.4	30.9	28.0	25.5B	29
30	33.3B		36.7	41.5	50.3	72.4	81.1	67.3	35.7	30.1	28.0	26.2B	30
31	33.5B		36.3	41.3	54.4		82.9	74.9		30.8		26.3B	31
TOTAL	1 016.4	927.3	1 072.1	1 091.4	1 367.8	1 940.6	2 607.0	2 216.8	1 383.6	980.2	785.1	828.9	TOTAL
MEAN	32.8	33.1	34.6	36.4	44.1	64.7	84.1	71.5	46.1	31.6	26.2	26.7	MEAN
MAX	34.8	35.4	37.3	41.5	54.4	95.1	96.3	86.2	69.9	41.0	33.7	28.6	MAX
MIN	31.5	29.2	32.1	34.7	37.8	27.5	66.9	55.8	27.7	24.4	22.8	25.4	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 44.4
MAXIMUM DAILY, 96.3 ON JUL 13
MINIMUM DAILY, 22.8 ON NOV 11
MAXIMUM INSTANTANEOUS,
109 AT 01:32 CST ON JUL 17

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 36 00 N
LONG 098 42 15 W
DRAINAGE AREA, 79 900 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1934

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	87 800	JUL	225 000
FEB	80 100	AUG	192 000
MAR	92 600	SEP	120 000
APR	94 300	OCT	84 700
MAY	118 000	NOV	67 800
JUN	168 000	DEC	71 600

TOTAL DISCHARGE, 1 400 000 dam³

FALCON LAKE NEAR FALCON LAKE - STATION NO. 05PD801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	324.851	325.100	324.942	324.814E	324.737E	324.659E	---	1
2	---	---	---	---	---	324.878E	325.097E	324.942	324.810E	324.732E	324.663	---	2
3	---	---	---	---	---	324.904E	325.093E	324.937E	324.807E	324.727	324.659E	---	3
4	---	---	---	---	---	324.931	325.090	324.932	324.803E	324.723E	324.656E	---	4
5	---	---	---	---	---	324.951E	325.090E	324.922	324.799E	324.719E	324.652E	---	5
6	---	---	---	---	---	324.971	325.090	324.917E	324.795	324.715E	324.648	---	6
7	---	---	324.613	---	---	324.984E	325.087E	324.912	324.791E	324.710E	324.646E	---	7
8	---	---	---	---	---	324.996E	325.083E	324.913E	324.788E	324.706E	324.645E	---	8
9	---	---	---	324.631	---	325.009E	325.080	324.913	324.784E	324.702E	324.643E	---	9
10	---	---	---	---	---	325.021	325.080E	324.906E	324.780E	324.698	324.641E	---	10
11	---	---	---	---	---	325.031E	325.080	324.898E	324.777E	324.708	324.640E	---	11
12	---	---	---	---	---	325.041	325.070	324.891E	324.773E	324.706E	324.638	---	12
13	---	---	---	---	---	325.041E	325.065E	324.883	324.770E	324.703E	324.636E	---	13
14	---	---	---	---	324.752	325.041	325.060	324.883E	324.766	324.701E	324.633E	---	14
15	---	---	---	---	324.752	325.041	325.050E	324.883	324.766E	324.698	324.631E	---	15
16	---	---	---	---	324.747E	325.041E	325.040	324.883E	324.766E	324.691E	324.628	---	16
17	---	---	---	---	324.742	325.041	325.031	324.883	324.766E	324.685E	324.628E	---	17
18	---	---	---	324.647	324.776E	325.041E	325.021	324.873E	324.766E	324.678	324.628E	---	18
19	---	---	---	---	324.810	325.041	325.017E	324.864E	324.766	324.676E	324.628	---	19
20	---	---	---	---	324.818E	325.061	325.013E	324.854	324.764E	324.673E	---	---	20
21	---	---	---	---	324.826E	325.076	325.010E	324.849E	324.762E	324.671E	---	---	21
22	---	---	---	---	324.834E	325.094E	325.006E	324.844	324.761E	324.668	---	---	22
23	---	---	---	---	324.842	325.111	325.002E	324.844E	324.759E	324.665E	---	---	23
24	---	---	---	324.642	324.852	325.111E	324.998E	324.844	324.757	324.662E	---	---	24
25	---	---	---	---	324.852E	325.111E	324.995E	324.840E	324.755E	324.659E	---	---	25
26	---	---	---	---	324.852	325.111	324.991	324.837E	324.753E	324.657E	---	---	26
27	---	---	---	---	324.852E	325.111	324.981	324.833E	324.751E	324.654E	---	---	27
28	---	---	---	---	324.852	325.110	324.972	324.829E	324.749E	324.651E	---	---	28
29	---		---	---	324.852	325.100	324.962	324.825E	324.747	324.648	---	---	29
30	---		---	---	324.852E	325.100E	324.952	324.822E	324.742E	324.652E	---	---	30
31	---		---	---	324.851E		324.942	324.818E		324.656E		---	31
MEAN	---	---	---	---	---	325.034	325.037	324.878	324.773	324.688	---	---	MEAN
MAX	---	---	---	---	---	325.111	325.100	324.942	324.814	324.737	---	---	MAX
MIN	---	---	---	---	---	324.851	324.942	324.818	324.742	324.648	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 325.111 ON JUN 22

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 40 45 N
LONG 095 18 45 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1963
DRAINAGE AREA,
113 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1983 ADJ.)

FAMILY LAKE AT LITTLE GRAND RAPIDS - STATION NO. 05RD006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	304.029	304.011	303.969	303.974	304.266	305.319	305.202	304.794	304.409	304.131	303.929	303.883	1
2	304.027	304.009	303.965	303.974	304.283	305.288	305.176	304.784	304.402	304.115	303.930	303.877	2
3	304.025	304.008	303.963	303.976	304.301	305.304	305.156	304.762	304.407	304.112	303.929	303.875	3
4	304.026	304.005	303.961	303.975	304.319	305.333	305.140	304.741	304.393	304.105	303.918	303.875	4
5	304.024	304.004	303.960	303.975	304.337	305.347	305.131	304.737	304.388	304.095	303.923	303.879	5
6	304.021	304.002	303.958	303.976	304.359	305.360	305.123	304.727	304.362	304.085	303.920	303.876	6
7	304.020	303.999	303.954	303.977	304.392	305.359	305.136	304.717	304.359	304.080	303.922	303.879	7
8	304.018	303.998	303.953	303.977	304.435	305.360	305.128	304.698	304.343	304.073	303.919	303.879	8
9	304.020	303.996	303.952	303.976	304.469	305.368	305.113	304.670	304.326	304.073	303.913	303.880	9
10	304.021	303.997	303.948	303.976	304.508	305.368	305.102	304.655	304.317	304.079	303.910	303.877	10
11	304.025	303.997	303.943	303.977	304.536	305.374	305.087	304.647	304.307	304.063	303.904	303.877	11
12	304.025	303.995	303.940	303.977	304.570	305.381	305.077	304.636	304.278	304.043	303.899	303.880	12
13	304.025	303.994	303.943	303.977	304.599	305.379	305.069	304.641	304.272	304.042	303.893	303.883	13
14	304.023	303.992	303.945	303.975	304.634	305.359	305.051	304.616	304.261	304.029	303.894	303.885	14
15	304.022	303.991	303.960	303.976	304.671	305.362	305.031	304.607	304.238	304.026	303.891	303.885	15
16	304.020	303.985	303.977	303.976	304.708	305.351	305.016	304.593	304.236	304.016	303.886	303.887	16
17	304.016	303.986	303.982	303.977	304.755	305.339	305.000	304.579	304.236	304.001	303.884	303.886	17
18	304.015	303.985	303.984	303.983	304.814	305.331	304.985	304.560	304.228	303.998	303.882	303.883	18
19	304.012	303.986	303.984	303.994	304.869	305.318	304.970	304.549	304.209	303.998	303.877	303.883	19
20	304.010	303.984	303.982	304.006	304.910	305.308	304.959	304.539	304.197	303.990	303.876	303.882	20
21	304.007	303.981	303.980	304.024	304.956	305.303	304.945	304.521	304.198	303.984	303.882	303.883	21
22	304.007	303.979	303.983	304.041	304.999	305.295	304.936	304.523	304.194	303.978	303.890	303.885	22
23	304.006	303.976	303.985	304.071	305.044	305.285	304.929	304.507	304.207	303.974	303.890	303.890	23
24	304.005	303.974	303.985	304.096	305.087	305.275	304.915	304.489	304.197	303.973	303.887	303.892	24
25	304.005	303.973	303.982	304.123	305.122	305.270	304.896	304.489	304.186	303.977	303.888	303.891	25
26	304.006	303.972	303.980	304.151	305.155	305.264	304.882	304.487	304.177	303.973	303.886	303.894	26
27	304.009	303.971	303.979	304.173	305.185	305.245	304.872	304.483	304.161	303.944	303.883	303.894	27
28	304.006	303.969	303.977	304.194	305.207	305.238	304.859	304.472	304.148	303.955	303.884	303.903	28
29	304.004		303.978	304.228	305.216	305.218	304.826	304.461	304.142	303.957	303.885	303.902	29
30	304.012		303.978	304.245	305.268	305.206	304.819	304.448	304.141	303.945	303.886	303.902	30
31	304.012		303.978		305.294		304.807	304.441		303.940		303.903	31
MEAN	304.016	303.990	303.968	304.031	304.751	305.317	305.011	304.599	304.264	304.024	303.899	303.885	MEAN
MAX	304.029	304.011	303.985	304.245	305.294	305.381	305.202	304.794	304.409	304.131	303.930	303.903	MAX
MIN	304.004	303.969	303.940	303.974	304.266	305.206	304.807	304.441	304.141	303.940	303.876	303.875	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 304.315
MAXIMUM DAILY, 305.381 ON JUN 12
MINIMUM DAILY, 303.875 ON DEC 03
MAXIMUM INSTANTANEOUS,
305.395 AT 13:29 CST ON JUN 13

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 02 30 N
LONG 095 27 30 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
17 600 km²

FISH LAKE AT OUTLET CONTROL STRUCTURE - STATION NO. 05SB003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	259.460	259.649	259.654	259.634	259.635	259.569E	259.446	259.384	---	---	1
2	---	---	259.463	259.644	259.650	259.643	259.632	259.565E	259.440	259.382	---	---	2
3	---	---	259.458	259.647	259.650	259.655	259.655	259.557E	259.440	259.382	---	---	3
4	---	---	259.458	259.644	259.652	259.650	259.664	259.543E	259.435	259.382	---	---	4
5	---	---	259.456	259.639	259.650	259.654	259.663	259.551E	259.426	259.375	---	---	5
6	---	---	259.456	259.636	259.649	259.654	259.660	259.544E	259.423	259.374	---	---	6
7	---	---	259.452	259.636	259.640	259.646	259.668	259.540E	259.419	259.369	---	---	7
8	---	---	259.455	259.635	259.652	259.664	259.671	259.534E	259.416	259.369	---	---	8
9	---	---	259.463	259.637	259.653	259.678	259.668	259.532E	259.412	259.367	---	---	9
10	---	---	259.464	259.634	259.652	259.678	259.660	259.529E	259.413	259.363	---	---	10
11	---	---	259.463	259.629	259.652	259.674	259.655	259.525E	259.412	259.362	---	---	11
12	---	---	259.476	259.632	259.650	259.680	259.651	259.520E	259.401	259.357	---	---	12
13	---	---	259.530	259.632	259.649	259.676	259.645	259.511E	259.392	259.358	---	---	13
14	---	---	259.543	259.630	259.645	259.667	259.641E	259.508E	259.391	259.357	---	---	14
15	---	---	259.571	259.637	259.642	259.661	259.640E	259.506E	259.387	259.354	---	---	15
16	---	---	259.596	259.639	259.651	259.658	259.649E	259.505E	259.383	259.351	---	---	16
17	---	---	259.597	259.639	259.670	259.653	259.644E	259.504A	259.379	259.348	---	---	17
18	---	---	259.598	259.639	259.666	259.653	259.638E	259.495	259.383	259.348	---	---	18
19	---	---	259.596	259.642	259.662	259.658	259.630E	259.492	259.378	259.344	---	---	19
20	---	---	259.597	259.637	259.663	259.672	259.619E	259.489	259.378	259.345	---	---	20
21	---	---	259.599	259.638	259.659	259.676	259.615E	259.486	259.400	259.344	---	---	21
22	---	---	259.601	259.634	259.662	259.672	259.608E	259.480	259.403	259.344	---	---	22
23	---	---	259.595	259.635	259.663	259.668	259.603E	259.479	259.400	259.341	---	---	23
24	---	---	259.596	259.635	259.657	259.663	259.601E	259.474	259.400	259.341	---	---	24
25	---	---	259.596	259.642	259.653	259.660	259.596E	259.471	259.395	259.340	---	---	25
26	---	---	259.594	259.649	259.654	259.650	259.588E	259.468	259.393	259.341	---	---	26
27	---	---	259.595	259.643	259.653	259.644	259.598E	259.471	259.393	259.342	---	---	27
28	---	---	259.595	259.647	259.645	259.650	259.597E	259.467	259.390	259.338	---	---	28
29	---		259.595	259.650	259.644	259.645	259.587E	259.464	259.386	259.341	---	---	29
30	---		259.621	259.655	259.641	259.641	259.585E	259.458	259.384	259.339	---	---	30
31	---		259.652		259.636		259.575E	259.454		259.337A		---	31
MEAN	---	---	259.542	259.640	259.652	259.659	259.630	259.506	259.403	259.355	---	---	MEAN
MAX	---	---	259.652	259.655	259.670	259.680	259.671	259.569	259.446	259.384	---	---	MAX
MIN	---	---	259.452	259.629	259.636	259.634	259.575	259.454	259.378	259.337	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 259.680 ON JUN 12
MINIMUM DAILY, 259.337A ON OCT 31
MAXIMUM INSTANTANEOUS,
259.684 AT 14:15 CST ON JUN 12

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1964 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 44 46 N
LONG 097 19 06 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1965

DRAINAGE AREA,
152 km²

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.763B	0.022	0	0.013	0	0	0	---	---	1
2	---	---	0 B	0.505B	0.018	0.011	0.006	0	0	0	---	---	2
3	---	---	0 B	0.482B	0.013	0.012	0.234	0	0	0	---	---	3
4	---	---	0 B	0.595B	0.010	0.018	0.413	0	0	0	---	---	4
5	---	---	0 B	0.491B	0.004	0.019	0.323	0	0				5
6	---	---	0 B	0.404B	0.003	0.014	0.222	0	0	0	---	---	6
7	---	---	0 B	0.304B	0.002	0.012	0.201	0	0	0	---	---	7
8	---	---	0 B	0.146B	0.006	0.054	0.205	0	0	0	---	---	8
9	---	---	0 B	0.234B	0.010	0.241	0.145	0	0	0	---	---	9
10	---	---	0 B	0.312B	0.010	0.327	0.068	0	0	0	---	---	10
11	---	---	0 B	0.143B	0.007	0.312	0.040	0	0	0	---	---	11
12	---	---	0.014B	0.043B	0.004	0.406	0.028	0	0	0	---	---	12
13	---	---	0.022B	0.051B	0.002	0.261	0.021	0	0	0	---	---	13
14	---	---	0.008B	0.076B	0.001	0.134	0.017	0	0	0	---	---	14
15	---	---	0.083B	0.122B	0	0.057	0.013	0	0				15
16	---	---	0.034B	0.047B	0.007	0.036	0.006	0	0	0	---	---	16
17	---	---	0.082B	0.062	0.039	0.025	0.014	0	0	0	---	---	17
18	---	---	0.037B	0.123	0.100	0.020	0.009	0	0	0	---	---	18
19	---	---	0.023B	0.298	0.074	0.022	0.004	0	0	0	---	---	19
20	---	---	0.042B	0.258	0.041	0.067	0.005	0	0				20
21	---	---	0.466B	0.101	0.025	0.127	0.014	0	0	0	---	---	21
22	---	---	0.145B	0.147	0.021	0.299	0.013	0	0	0	---	---	22
23	---	---	0.010B	0.051	0.020	0.237	0.010	0	0	0	---	---	23
24	---	---	0.005B	0.048	0.018	0.116	0.005	0	0	0	---	---	24
25	---	---	0.029B	0.045	0.011	0.052	0.003	0	0				25
26	---	---	0.040B	0.066	0.005	0.025	0.002	0	0	0	---	---	26
27	---	---	0.024B	0.049	0.003	0.014	0	0	0	0	---	---	27
28	---	---	0.010B	0.035	0.001	0.029	0.002	0	0	0	---	---	28
29	---	---	0.011B	0.030	0	0.025	0.003	0	0	0	---	---	29
30	---		0.329B	0.028	0	0.019	0.001	0	0	0		---	30
31	---		0.993B		0		0	0					31
TOTAL	---	---	2.407	6.059	0.477	3.011	2.040	0	0	0	---	---	TOTAL
MEAN	---	---	0.078	0.202	0.015	0.100	0.066	0	0	0	---	---	MEAN
MAX	---	---	0.993	0.763	0.100	0.406	0.413	0	0	0	---	---	MAX
MIN	---	---	0	0.028	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.057
MAXIMUM DAILY, 0.993B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 42 11 N
LONG 097 01 03 W
DRAINAGE AREA, 246 km²

B - ICE CONDITIONS

REGULATED SINCE 1965

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	176
FEB	---	AUG	0
MAR	208	SEP	0
APR	523	OCT	0
MAY	41.2	NOV	---
JUN	260	DEC	---

TOTAL DISCHARGE, 1 210 dam³

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.059E	0.090	0.102	14.8	1.47	0.821	0.714	0.333E	0.217	0.146	0.172A	0.193A	1
2	0.053A	0.083	0.103	24.3	1.40	0.697	0.677	0.336E	0.190	0.148	0.184A	0.193A	2
3	0.053A	0.088	0.104	24.2	1.41	0.617	0.619	0.310E	0.188	0.151	0.193A	0.177A	3
4	0.055A	0.105	0.104	20.2	1.27	0.623	0.631	0.277E	0.189	0.190	0.199A	0.168A	4
5	0.054A	0.093	0.103	14.6	1.20	0.677	0.675	0.271E	0.184	0.245	0.199A	0.166A	5
6	0.052A	0.088	0.103	11.1	1.32	0.792	0.636	0.257E	0.168	0.253	0.196A	0.159A	6
7	0.052A	0.087	0.103	9.36	1.25	0.739	0.786	0.242E	0.146	0.227	0.196A	0.159A	7
8	0.055A	0.087	0.102	7.46	1.22	0.675	0.917	0.219E	0.120	0.193	0.196A	0.159A	8
9	0.056A	0.087	0.102	6.10	1.32	0.712	0.928	0.213E	0.111	0.195	0.193A	0.156A	9
10	0.063A	0.089	0.104	5.15	1.41	0.686	0.874	0.216E	0.110	0.192	0.193A	0.156A	10
11	0.066A	0.089	0.108	4.27	1.36	0.655	0.745	0.213E	0.104	0.177	0.193A	0.156A	11
12	0.069A	0.095	0.134	3.76	1.11	0.955	0.623	0.228E	0.095	0.166	0.196A	0.168E	12
13	0.075A	0.091	0.249	3.73	0.993	1.45	0.548	0.234E	0.091	0.156	0.202A	0.177A	13
14	0.073A	0.085	0.333	3.90	0.853	1.85	0.490	0.222E	0.093	0.144	0.219A	0.178	14
15	0.073A	0.087	0.508	4.25	0.701	1.52	0.439	0.242E	0.118	0.142	0.222A	0.180	15
16	0.068	0.088	0.575	3.59	0.664	1.52	0.383	0.245E	0.147	0.142	0.219A	0.181	16
17	0.067	0.087	0.601	3.18	1.33	1.09	0.375	0.231E	0.153	0.144	0.219A	0.182	17
18	0.069	0.088	0.709	3.09	3.13	0.787	0.375	0.205E	0.141	0.154	0.219A	0.178	18
19	0.071	0.085	0.762	3.77	3.15	0.647	0.488A	0.188E	0.119	0.164	0.219A	0.161	19
20	0.076	0.094	0.712	5.61	2.28	0.584	0.496E	0.168E	0.110	0.167	0.216A	0.146	20
21	0.080	0.092	0.707	4.50	1.68	0.785	0.48C&	0.149A	0.126	0.165	0.219A	0.121	21
22	0.082	0.094	0.729	3.91	1.37	1.05	0.455E	0.142	0.142	0.164	0.219A	0.106	22
23	0.087	0.091	0.575	2.85	1.18	1.67	0.415E	0.140	0.177	0.165	0.257A	0.103	23
24	0.091	0.090	0.446	2.53	1.10	1.68	0.394E	0.129	0.199	0.165	0.260A	0.101	24
25	0.089	0.096	0.373	2.43	1.07	1.20	0.362E	0.139	0.197	0.170	0.254A	0.101	25
26	0.083	0.101	0.316	2.89	0.937	0.876	0.333E	0.142	0.175	0.176	0.239A	0.098	26
27	0.083	0.103	0.285	3.06	0.802	0.733	0.323E	0.155	0.170	0.163	0.237A	0.089	27
28	0.086	0.105	0.255	2.55	0.727	0.743	0.287E	0.169	0.154	0.167	0.228A	0.086	28
29	0.090		0.253	1.95	0.710	0.698	0.290E	0.201	0.146	0.173	0.210A	0.088	29
30	0.095		0.459	1.60	0.691	0.692	0.303E	0.246		0.172	0.199A	0.088	30
31	0.091		3.02		0.769		0.319E	0.251		0.173A		0.084	31
TOTAL	2.216	2.558	13.139	204.29	39.777	28.209	16.380	6.713	4.426	5.349	6.387	4.458	TOTAL
MEAN	0.072	0.091	0.424	6.81	1.28	0.940	0.528	0.217	0.148	0.173	0.213	0.144	MEAN
MAX	0.095	0.105	3.02	24.3	3.15	1.85	0.928	0.336	0.217	0.253	0.260	0.193	MAX
MIN	0.052	0.083	0.102	1.60	0.664	0.584	0.287	0.129	0.091	0.142	0.172	0.084	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.915
MAXIMUM DAILY, 24.3 ON APR 02
MINIMUM DAILY, 0.052A ON JAN 06
MAXIMUM INSTANTANEOUS, 26.0 AT 22:06 CST ON APR 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 21 20 N
LONG 097 30 50 W
DRAINAGE AREA, 1 720 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	191	JUL	1 420
FEB	221	AUG	580
MAR	1 140	SEP	382
APR	1 700	OCT	462
MAY	3 440	NOV	552
JUN	2 440	DEC	385

TOTAL DISCHARGE, 28 900 dam³

FOOTPRINT LAKE AT NELSON HOUSE - STATION NO. 05TF001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	243.612	243.586	---	242.463	243.495	243.120	242.444	242.131	242.085	242.421	242.302	1
2	---	243.613	243.530	242.360A	242.463	243.514	243.072	242.451	242.126	242.069	242.444	242.276	2
3	---	243.623	243.455	242.358	242.463	243.531	243.019	242.442	242.129	242.078	242.471	242.258	3
4	---	243.633	243.354	242.353	242.465	243.537	242.974	242.434	242.131	242.082	242.462	242.253	4
5	---	243.643	243.260	242.349	242.471	243.541	242.934	242.431	242.124	242.085	242.491	242.251	5
6	---	243.656	243.162	242.349	242.485	243.549	242.888	242.427	242.118	242.081	242.504	242.255	6
7	---	243.665	243.108A	242.349	242.503	243.555	242.850	242.424	242.120	242.078	242.510	242.263	7
8	---	243.681	---	242.349	242.526	243.556	242.817	242.407	242.108	242.077	242.517	242.275	8
9	---	243.705	---	242.347	242.547	243.557	242.786	242.381	242.102	242.078	242.525	242.278	9
10	---	243.726	---	242.343	242.582	243.558	242.754	242.358	242.098	242.080	242.532	242.278	10
11	---	243.744	---	242.340	242.624	243.563	242.724	242.338	242.094	242.093	242.531	242.282	11
12	---	243.755	---	242.337	242.664	243.576	242.701	242.320	242.088	242.094	242.526	242.291	12
13	---	243.753	---	242.332	242.700	243.579	242.675	242.301	242.093	242.090	242.527	242.293	13
14	---	243.751	---	242.324	242.733	243.587	242.647	242.285	242.097	242.098	242.534	242.298	14
15	---	243.747	---	242.316	242.773	243.594	242.625	242.264	242.099	242.101	242.535	242.310	15
16	---	243.741	---	242.308	242.829	243.589	242.607	242.245	242.098	242.099	242.532	242.314	16
17	---	243.737	---	242.302	242.882	243.568	242.584	242.228	242.097	242.103	242.534	242.318A	17
18	---	243.730	---	242.297	242.926	243.554	242.570	242.214	242.095	242.115	242.534	---	18
19	---	243.721	---	242.290	242.983	243.543	242.550	242.200	242.091	242.143	242.531	---	19
20	---	243.720	---	242.296	243.043	243.531	242.535	242.192	242.086	242.143	242.533	---	20
21	---	243.711	---	242.303	243.101	243.510	242.525	242.181	242.086	242.159A	242.535	---	21
22	---	243.692	---	242.312	243.161	243.478	242.516	242.172	242.087	242.189A	242.545	---	22
23	243.592A	243.677	---	242.329	243.213	243.448	242.504	242.165	242.089	242.206	242.517	---	23
24	---	243.662	---	242.353	243.271	243.421	242.492	242.160	242.088	242.243	242.477	---	24
25	---	243.646	---	242.377	243.324	243.394	242.485	242.148	242.092	242.273	242.435	---	25
26	---	243.636	---	242.400	243.370	243.360	242.473	242.140	242.088	242.302	242.402	---	26
27	---	243.623	---	242.420	243.391	243.314	242.467	242.134	242.085	242.333	242.375	---	27
28	---	243.614	---	242.431	243.413	243.267	242.459	242.132	242.082	242.351	242.353	---	28
29	243.601A		---	242.453	243.433	243.221	242.458	242.129	242.084	242.375	242.331	---	29
30	243.607		---	242.461	243.457	243.174	242.447	242.122	242.082	242.390	242.322	---	30
31	243.610		---		243.480		242.445	242.124		242.403		---	31
MEAN	---	243.686	---	---	242.895	243.489	242.668	242.271	242.100	242.164	242.484	---	MEAN
MAX	---	243.755	---	---	243.480	243.594	243.120	242.451	242.131	242.403	242.545	---	MAX
MIN	---	243.612	---	---	242.463	243.174	242.445	242.122	242.082	242.069	242.322	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 243.755 ON FEB 12
MINIMUM DAILY, 242.069 ON OCT 02
MAXIMUM INSTANTANEOUS,
243.755 AT 12:03 CST ON FEB 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 40 00 N
LONG 098 51 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1976
DRAINAGE AREA,
1 440 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.08E	1.28	1.14	0.888	1.71	3.33	1.07	0.316	0.293	0.197	0.389	0.961	1
2	1.09E	1.29	1.05	0.899	1.69	3.14	1.08	0.390	0.262	0.208	0.411	0.952	2
3	1.11E	1.30	1.05	0.954	1.73	2.83	0.987	0.380	0.266	0.248	0.446	0.951	3
4	1.13E	1.30	1.05	0.960	1.75	2.57	0.964	0.358	0.243	0.256	0.445	0.968	4
5	1.16	1.26	1.05	0.965	1.78	2.56	0.790	0.333	0.239	0.241	0.460	0.963	5
6	1.21	1.26	1.03	0.947	1.85	2.58	0.661	0.324	0.290	0.226	0.482	0.980	6
7	1.22	1.26	1.06	0.952	1.97	2.37	0.676	0.311	0.228	0.217	0.472	1.00	7
8	1.22	1.25	1.06	0.944	2.08	2.27	0.719	0.320	0.255	0.212	0.462	1.00	8
9	1.22	1.24	1.08	0.936	2.16	2.30	0.729	0.345	0.243	0.211	0.483	1.02	9
10	1.24	1.25	1.10	0.934	2.30	2.07	0.608	0.308	0.244	0.217	0.501	1.03	10
11	1.27	1.22	1.10	0.930	2.42	2.11	0.570	0.290	0.284	0.245	0.498	1.02	11
12	1.22	1.21	1.11	0.933	2.53	2.23	0.461	0.266	0.250	0.260	0.503	1.04	12
13	1.22	1.22	1.12	0.923	2.66	2.26	0.395	0.282	0.286	0.287	0.517	1.06	13
14	1.21	1.20	1.11	0.923	2.75	2.05	0.424	0.318	0.267	0.295	0.513	1.06	14
15	1.19	1.12	1.10	0.948	2.84	1.84	0.400	0.264	0.250	0.288	0.505	1.08	15
16	1.19	1.14	1.08	0.962	3.15	1.77	0.395	0.258	0.216	0.286	0.517	1.08	16
17	1.18	1.14	1.03	0.954	3.30	1.79	0.411	0.248	0.184	0.303	0.519	1.08	17
18	1.16	1.19	1.02	0.964	3.32	1.76	0.390	0.238	0.187	0.314	0.514	1.12	18
19	1.15	1.19	1.05	0.980	3.38	1.72	0.393	0.222	0.222	0.323	0.528	1.09	19
20	1.16	1.19	1.01	0.967	3.54	1.66	0.396	0.205	0.236	0.325	0.538	1.06	20
21	1.21	1.20	0.963	0.990	3.74	1.64	0.355	0.186	0.234	0.330	0.556	1.06 A	21
22	1.22	1.06	0.871	1.05	3.99	1.57	0.346	0.201	0.215	0.311	0.678	1.08 A	22
23	1.22	1.05	0.877	1.14	3.99	1.32	0.313	0.201	0.205	0.352	0.730	1.07	23
24	1.23	1.05	1.02	1.23	3.92	1.35	0.324	0.211	0.216	0.365	0.763	1.08	24
25	1.23	1.14	0.880	1.32	3.96	1.37	0.314	0.207	0.211	0.362	0.779	1.04	25
26	1.26	1.14	0.849	1.40	3.91	1.21	0.291	0.192	0.199	0.369	0.786	1.08	26
27	1.27	1.09	0.868	1.45	3.83	1.13	0.273	0.177	0.218	0.368	0.819	1.09	27
28	1.23	1.13	0.871	1.54	3.56	1.06	0.289	0.166	0.218	0.375	0.830	1.18	28
29	1.23		0.925	1.66	3.32	0.986	0.329	0.169	0.181	0.373	0.844	1.20	29
30	1.25		0.925	1.70	3.22	1.00	0.268	0.167	0.154	0.377	0.940	1.12	30
31	1.27		0.915		3.16		0.292	0.249		0.386		1.15	31
TOTAL	37.25	33.32	31.364	32.343	89.51	57.846	15.913	8.102	6.996	9.147	17.428	32.665	TOTAL
MEAN	1.20	1.19	1.01	1.08	2.89	1.93	0.513	0.261	0.233	0.295	0.581	1.05	MEAN
MAX	1.27	1.30	1.14	1.70	3.99	3.33	1.08	0.390	0.293	0.386	0.940	1.20	MAX
MIN	1.08	1.05	0.849	0.888	1.69	0.986	0.268	0.166	0.154	0.197	0.389	0.951	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.02
MAXIMUM DAILY, 3.99 ON MAY 22
MINIMUM DAILY, 0.154 ON SEP 30
MAXIMUM INSTANTANEOUS,
4.10 AT 10:28 CST ON MAY 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 55 50 N
LONG 098 53 10 W
DRAINAGE AREA, 599 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	3 220	JUL	1 370
FEB	2 980	AUG	700
MAR	2 710	SEP	604
APR	2 790	OCT	790
MAY	7 730	NOV	1 510
JUN	5 000	DEC	2 820

TOTAL DISCHARGE, 32 100 dam³

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.067B	2.17	1.16	0.347	0.002	0	0	---	---	1
2	---	---	0 B	0.504B	2.37	0.999	0.317	0	0	0	---	---	2
3	---	---	0 B	3.16 B	2.42	0.830	0.357	0	0	0	---	---	3
4	---	---	0 B	6.77 B	2.27	0.761	0.339	0	0	0	---	---	4
5	---	---	0 B	5.55 B	1.99	1.12	0.418	0.001	0	0	---	---	5
6	---	---	0 B	3.50 B	1.97	1.23	0.286	0	0	0	---	---	6
7	---	---	0.006B	3.31 B	2.19	1.12	0.444	0	0	0	---	---	7
8	---	---	0.001B	2.79 B	2.67	1.07	0.493	0	0	0	---	---	8
9	---	---	0.002B	2.19 B	3.01	1.00	0.394	0	0	0	---	---	9
10	---	---	0.011B	1.68 B	2.94	1.04	0.266	0	0	0	---	---	10
11	---	---	0 B	1.37 B	2.67	0.954	0.192	0	0	0	---	---	11
12	---	---	0 B	1.58 B	2.30	0.767	0.154	0	0	0	---	---	12
13	---	---	0.004B	1.79 B	2.01	0.715	0.129	0	0	0	---	---	13
14	---	---	0 B	1.67 B	1.74	0.740	0.108	0	0	0	---	---	14
15	---	---	0 B	2.23 B	1.53	0.592	0.090	0	0	0	---	---	15
16	---	---	0 B	2.21	9.06	0.460	0.075	0	0	0	---	---	16
17	---	---	0 B	2.08	18.2	0.386	0.067	0	0	0	---	---	17
18	---	---	0 B	3.88	11.7	0.321	0.064	0	0	0	---	---	18
19	---	---	0 B	8.08	6.84	0.273	0.061	0	0	0	---	---	19
20	---	---	0 B	7.87	5.25	0.267	0.049	0	0				20
21	---	---	0 B	6.22	4.43	0.255	0.035	0	0	0	---	---	21
22	---	---	0 B	5.45	4.36	0.215	0.031	0	0	0.010	---	---	22
23	---	---	0 B	5.72	4.22	0.262	0.029	0	0	0.032	---	---	23
24	---	---	0 B	5.25	4.12	0.192	0.025	0	0	0.002	---	---	24
25	---	---	0 B	5.54	3.56	0.151	0.023	0	0	0	---	---	25
26	---	---	0 B	5.55	3.03	0.119	0.016	0	0	0	---	---	26
27	---	---	0 B	5.06	2.60	0.176	0.018	0	0.028	0	---	---	27
28	---	---	0 B	3.79	2.19	0.369	0.012	0	0.026	0	---	---	28
29	---	---	0 B	2.66	1.81	0.431	0.008	0	0.008	0.006	---	---	29
30	---	---	0 B	2.33	1.53	0.412	0.003	0	0.004	0.022A	---	---	30
31	---	---	0 B	2.03	1.29		0.004	0		0.012E			31
					1.23								
TOTAL	---	---	0.024	108.451	115.45	18.387	4.854	0.003	0.066	0.084	---	---	TOTAL
MEAN	---	---	0.001	3.62	3.72	0.613	0.157	0	0.002	0.003	---	---	MEAN
MAX	---	---	0.011	8.77	18.2	1.23	0.493	0.002	0.028	0.032	---	---	MAX
MIN	---	---	0	0.067	1.23	0.119	0.003	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.01
MAXIMUM DAILY, 18.2 ON MAY 17
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 20.7 AT 02:46 CST ON MAY 17

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 31 20 N
LONG 100 22 10 W
DRAINAGE AREA, 260 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	419
FEB	---	AUG	0.259
MAR	2.07	SEP	5.70
APR	9 370	OCT	7.26
MAY	9 970	NOV	---
JUN	1 590	DEC	---

TOTAL DISCHARGE, 21 400 dam³

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 05NF007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0B	0	0	0	0	0	0	---	---	1
2	---	---	0B	0B	0	0	0	0	0	0	---	---	2
3	---	---	0B	0	0	0	0	0	0	0	---	---	3
4	---	---	0B	0	0	0	0	0	0	0	---	---	4
5	---	---	0B	0	0	0	0	0	0	0	---	---	5
6	---	---	0B	0	0	0	0	0	0	0	---	---	6
7	---	---	0B	0	0	0	0	0	0	0	---	---	7
8	---	---	0B	0	0	0	0	0	0	0	---	---	8
9	---	---	0B	0	0	0	0	0	0	0	---	---	9
10	---	---	0B	0	0	0	0	0	0	0	---	---	10
11	---	---	0B	0	0	0	0	0	0	0	---	---	11
12	---	---	0B	0	0	0	0	0	0	0	---	---	12
13	---	---	0B	0	0	0	0	0	0	0	---	---	13
14	---	---	0B	0	0	0	0	0	0	0	---	---	14
15	---	---	0B	0	0	0	0	0	0	0	---	---	15
16	---	---	0B	0	0	0	0	0	0	0	---	---	16
17	---	---	0B	0	0	0	0	0	0	0	---	---	17
18	---	---	0B	0	0	0	0	0	0	0	---	---	18
19	---	---	0B	0	0	0	0	0	0	0	---	---	19
20	---	---	0B	0	0	0	0	0	0	0	---	---	20
21	---	---	0B	0	0	0	0	0	0	0	---	---	21
22	---	---	0B	0	0	0	0	0	0	0	---	---	22
23	---	---	0B	0	0	0	0	0	0	0	---	---	23
24	---	---	0B	0	0	0	0	0	0	0	---	---	24
25	---	---	0B	0	0	0	0	0	0	0	---	---	25
26	---	---	0B	0	0	0	0	0	0	0	---	---	26
27	---	---	0B	0	0	0	0	0	0	0	---	---	27
28	---	---	0B	0	0	0	0	0	0	0	---	---	28
29	---	---	0B	0	0	0	0	0	0	0	---	---	29
30	---		0B	0	0	0	0	0	0	0	---	---	30
31	---		0B		0		0			0			31
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0B ON MAR 01
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 45 N
LONG 101 11 00 W
DRAINAGE AREA, 1 150 km²
B - ICE CONDITIONS
REGULATED SINCE 1962

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.105B	0.320B	4.12	2.22	1.28	0.043	0	0	---	---	1
2	---	---	0.092B	0.248B	4.62	1.93	1.14	0.038	0	0	---	---	2
3	---	---	0.096B	0.234B	5.19	4.84	0.905	0.018	0	0	---	---	3
4	---	---	0.097B	0.275B	5.43	3.78	0.864	0.009	0	0	---	---	4
5	---	---	0.099B	0.494B	5.02	3.18	0.910	0.006	0	0	---	---	5
6	---	---	0.097B	0.737B	4.64	3.13	1.06	0.003	0	0	---	---	6
7	---	---	0.097B	0.856B	4.32	2.87	1.49	0.002	0	0	---	---	7
8	---	---	0.119B	1.13 B	4.66	2.56	1.68	0.001	0	0	---	---	8
9	---	---	0.144B	1.35 B	5.69	2.19	1.85	0	0	0	---	---	9
10	---	---	0.136B	1.73 B	7.00	1.91	1.83	0	0	0	---	---	10
11	---	---	0.122B	2.27 B	7.58	1.75	1.60	0	0	0	---	---	11
12	---	---	0.116B	3.26 B	7.32	1.64	1.39	0	0	0	---	---	12
13	---	---	0.111B	3.26 B	6.42	1.51	1.18	0	0	0	---	---	13
14	---	---	0.126B	3.00 B	5.21	1.47	1.01	0	0	0	---	---	14
15	---	---	0.133B	3.33 B	4.33	1.44	0.806	0	0	0	---	---	15
16	---	---	0.136B	3.29 B	5.77	1.37	0.603	0	0	0	---	---	16
17	---	---	0.153B	3.41 B	12.2	1.27	0.441	0	0	0	---	---	17
18	---	---	0.136B	4.82 B	19.5	1.18	0.371	0	0	0	---	---	18
19	---	---	0.128B	7.24 B	25.7	1.09	0.273	0	0	0	---	---	19
20	---	---	0.116B	10.5	16.2	0.995	0.217	0	0	0	---	---	20
21	---	---	0.114B	10.6	9.98	0.937	0.246	0	0	0	---	---	21
22	---	---	0.105B	8.99	7.77	0.940	0.210	0	0	0	---	---	22
23	---	---	0.100B	7.96	6.41	0.942	0.178	0	0	0	---	---	23
24	---	---	0.092B	7.84	5.50	0.884	0.156	0	0	0	---	---	24
25	---	---	0.103B	7.79	4.63	0.765	0.129	0	0	0	---	---	25
26	---	---	0.126B	7.36	3.92	0.657	0.128	0	0	0	---	---	26
27	---	---	0.157B	6.44	3.34	0.595	0.114	0	0	0	---	---	27
28	---	---	0.205B	5.29	2.95	0.746	0.098	0	0	0	---	---	28
29	---	---	0.270B	3.89	2.51	0.872	0.089	0	0	0	---	---	29
30	---	---	0.341B	3.97	2.24	1.42	0.076	0	0	0	---	---	30
31	---		0.405B		2.01		0.054	0		0		---	31
TOTAL	---	---	4.377	121.884	212.18	53.063	22.286	0.120	0	0	---	---	TOTAL
MEAN	---	---	0.141	4.06	6.84	1.77	0.719	0.004	0	0	---	---	MEAN
MAX	---	---	0.405	10.6	25.7	4.84	1.85	0.043	0	0	---	---	MAX
MIN	---	---	0.092	0.234	2.01	0.595	0.054	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 1.69
MAXIMUM DAILY, 25.7 ON MAY 19
MINIMUM DAILY, 0 ON AUG 09
MAXIMUM INSTANTANEOUS,
30.8 AT 05:40 CST ON MAY 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 51 08 N
LONG 100 14 58 W
DRAINAGE AREA, 440 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 930
FEB	---	AUG	10.4
MAR	370	SEP	0
APR	10 500	OCT	0
MAY	18 300	NOV	---
JUN	4 580	DEC	---

TOTAL DISCHARGE, 35 700 dam³

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 06FA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	11.4B	10.1 B	9.50B	9.50B	9.44B	---	---	---	---	28.2	25.2B	18.0B	1
2	11.3B	10.1 B	9.50B	9.50B	9.44B	---	---	---	---	29.9	25.0B	18.0B	2
3	11.2B	10.0 B	9.50B	9.50B	9.44B	---	---	---	---	28.1	24.9B	17.9B	3
4	11.1B	10.0 B	9.50B	9.50B	9.44B	---	---	---	---	31.7	24.6B	17.8B	4
5	11.1B	9.94B	9.50B	9.50B	9.44B	---	---	---	---	23.6	24.5B	17.8B	5
6	11.1B	9.94B	9.50B	9.50B	---	---	---	---	---	27.6	24.4B	17.8B	6
7	11.0B	9.87B	9.50B	9.48B	---	---	---	---	---	29.2	24.1B	17.8B	7
8	11.0B	9.87B	9.50B	9.44B	---	---	---	---	---	29.2	23.9B	17.9B	8
9	10.9B	9.87B	9.50B	9.44B	---	---	---	---	---	29.4	23.7B	18.0B	9
10	10.9B	9.80B	9.50B	9.44B	---	---	---	---	---	28.4	23.3B	18.0B	10
11	10.9B	9.72B	9.50B	9.44B	---	---	---	---	36.2A	25.8	23.2B	18.0B	11
12	10.9B	9.65B	9.50B	9.44B	---	---	---	---	37.3	25.9B	22.8B	18.0B	12
13	10.8B	9.65B	9.50B	9.44B	---	---	---	---	35.8	25.9B	22.6B	18.0B	13
14	10.7B	9.65B	9.50B	9.44B	---	---	---	---	35.1	26.1B	22.0B	18.0B	14
15	10.6B	9.65B	9.50B	9.44B	---	---	---	---	34.6	26.1B	21.9B	18.1B	15
16	10.5B	9.65B	9.50B	9.44B	---	---	---	---	36.4	26.1B	21.6B	18.2B	16
17	10.5B	9.65B	9.50B	9.44B	---	---	---	---	36.4	26.1B	21.4B	18.3B	17
18	10.4B	9.57B	9.50B	9.44B	---	---	---	---	31.5	26.2B	21.2B	18.4B	18
19	10.3B	9.57B	9.50B	9.44B	---	---	---	---	32.9	26.2B	20.7B	18.5B	19
20	10.3B	9.57B	9.50B	9.44B	---	---	---	---	34.9	26.2B	20.3B	18.6B	20
21	10.3B	9.57B	9.50B	9.44B	---	---	---	---	33.7	26.2B	20.1B	19.0B	21
22	10.2B	9.57B	9.50B	9.44B	---	---	---	---	33.3	26.1B	19.9B	19.1B	22
23	10.2B	9.57B	9.50B	9.44B	---	---	---	---	32.2	26.1B	19.7B	19.1B	23
24	10.2B	9.57B	9.50B	9.44B	---	---	---	---	32.3	25.9B	19.5B	19.2B	24
25	10.2B	9.57B	9.50B	9.44B	---	---	---	---	31.2	25.8B	19.3B	19.3B	25
26	10.2B	9.57B	9.50B	9.44B	---	---	---	---	29.8	25.7B	19.1B	19.4B	26
27	10.2B	9.57B	9.50B	9.44B	---	---	---	---	30.0	25.7B	18.8B	19.6B	27
28	10.2B	9.57B	9.50B	9.44B	---	---	---	---	30.8	25.6B	18.4B	19.6B	28
29	10.2B		9.50B	9.44B	---	---	---	---	33.3	25.5B	18.3B	19.6B	29
30	10.2B		9.50B	9.44B	---	---	---	---	31.7	25.3B	18.1B	19.5B	30
31	10.2B		9.50B				---	---		25.3B		19.3B	31
TOTAL	329.2	272.38	294.50	283.60	---	---	---	---	---	819.1	652.3	573.8	TOTAL
MEAN	10.6	9.73	9.50	9.45	---	---	---	---	---	26.4	21.7	18.5	MEAN
MAX	11.4	10.1	9.50	9.50	---	---	---	---	---	29.9	25.2	19.6	MAX
MIN	10.2	9.57	9.50	9.44	---	---	---	---	---	21.7	18.1	17.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 18 06 N
LONG 097 31 24 W
DRAINAGE AREA, 5 960 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	28 400	JUL	---
FEB	23 500	AUG	---
MAR	25 400	SEP	---
APR	24 500	OCT	70 800
MAY	---	NOV	56 400
JUN	---	DEC	49 600

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05QA015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.76 B	0.004	0	0.004	---	---	---	---	---	1
2	---	---	0 B	2.17 B	0.004	0	0.004	---	---	---	---	---	2
3	---	---	0 B	0.991B	0.003	0	0.004	---	---	---	---	---	3
4	---	---	0 B	0.454B	0.001	0	0.004	---	---	---	---	---	4
5	---	---	0 B	0.407B	0.001	0							5
6	---	---	0 B	0.253B	0	0	0.003	---	---	---	---	---	6
7	---	---	0 B	0.179B	0	0	0.003	---	---	---	---	---	7
8	---	---	0 B	0.155	0	0.003	0.002	---	---	---	---	---	8
9	---	---	0 B	0.123	0	0.005	0.001	---	---	---	---	---	9
10	---	---	0 B	0.105A	0	0.004	0	---	---	---	---	---	10
11	---	---	0 B	0.078	0	0.004	---	---	---	---	---	---	11
12	---	---	0.033B	0.047	0	0.003	---	---	---	---	---	---	12
13	---	---	0.141B	0.032	0	0.002	---	---	---	---	---	---	13
14	---	---	0.176B	0.020	0	0.001	---	---	---	---	---	---	14
15	---	---	0.088B	0.013	0	0.001	---	---	---	---	---	---	15
16	---	---	0.070B	0.007	0.001	0.001	---	---	---	---	---	---	16
17	---	---	0.020B	0.004	0.003	0.001	---	---	---	---	---	---	17
18	---	---	0.005B	0.004	0.003	0.002	---	---	---	---	---	---	18
19	---	---	0.002B	0.006	0.003	0.002	---	---	---	---	---	---	19
20	---	---	0.002B	0.005	0.002	0.001	---	---	---	---	---	---	20
21	---	---	0.001B	0.005	0.001	0.008	---	---	---	---	---	---	21
22	---	---	0 B	0.004	0	0.011	---	---	---	---	---	---	22
23	---	---	0 B	0.004	0	0.011	---	---	---	---	---	---	23
24	---	---	0 B	0.004	0	0.011	---	---	---	---	---	---	24
25	---	---	0 B	0.005	0	0.009	---	---	---	---	---	---	25
26	---	---	0 B	0.004	0	0.008	---	---	---	---	---	---	26
27	---	---	0 B	0.004	0	0.006	---	---	---	---	---	---	27
28	---	---	0 B	0.004	0	0.005	---	---	---	---	---	---	28
29	---	---	0 B	0.004	0	0.005	---	---	---	---	---	---	29
30	---	---	0 B	0.004	0	0.004	---	---	---	---	---	---	30
31	---	---	0.126B	0.004	0	---	---	---	---	---	---	---	31
TOTAL	---	---	0.498	1.162	7.855	0.026	0.108	---	---	---	---	---	TOTAL
MEAN	---	---	0.038	0.262	0.001	0.004	---	---	---	---	---	---	MEAN
MAX	---	---	0.498	2.76	0.004	0.011	---	---	---	---	---	---	MAX
MIN	---	---	0	0.004	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.075
MAXIMUM DAILY, 2.76B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 3.75B AT 02:02 CST ON APR 01

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 04 40 N
LONG 099 21 00 W

DRAINAGE AREA, 220 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	100	SEP	---
APR	679	OCT	---
MAY	2.25	NOV	---
JUN	9.33	DEC	---

TOTAL DISCHARGE, 791 dam³

GODS LAKE AT OUTLET OF GODS LAKE - STATION NO. 04AC006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	179.336	179.354	179.318	179.305	179.573	179.945	180.136	180.137	180.011	179.797	179.700	1
2	---	179.334	179.346	179.317	179.303	179.594	179.954	180.155	180.148	179.998	179.807	179.689	2
3	---	179.334	179.344	179.317	179.301	179.610	179.956	180.155	180.145	179.993	179.808	179.681	3
4	---	179.335	179.341	179.320	179.299	179.622	179.962	180.155	180.147	179.976	179.806	179.677	4
5	---	179.339	179.341	179.317	179.296	179.637	179.975	180.152	180.143	179.968	179.808	179.682	5
6	---	179.340	179.340	179.315	179.301	179.651	179.983	180.148	180.125	179.961	179.802	179.677	6
7	---	179.342	179.340	179.311	179.299	179.666	179.992	180.153	180.138	179.956	179.808	179.674	7
8	---	179.341	179.341	179.307	179.298	179.680	180.007	180.155	180.109	179.953	179.802	179.678	8
9	---	179.343	179.342	179.303	179.300	179.695	180.010	180.159	180.102	179.952	179.797	179.678	9
10	---	179.347	179.341	179.300	179.308	179.707	180.022	180.160	180.104	179.958	179.790	179.867	10
11	---	179.345	179.333	179.297	179.312	179.721	180.025	180.161	180.084	179.949	179.781	179.664	11
12	---	179.343	179.334	179.293	179.316	179.744	180.038	180.162	180.089	179.928	179.765	179.657	12
13	---	179.349	179.327	179.288	179.319	179.750	180.043	180.158	180.085	179.925	179.760	179.655	13
14	---	179.348	179.333	179.285	179.321	179.768	180.047	180.144	180.096	179.916	179.760	179.651	14
15	---	179.349	179.331	179.279	179.327	179.794	180.048	180.147	180.077	179.907	179.757	179.647	15
16	---	179.347	179.345	179.285	179.338	179.808	180.050	180.146	180.090	179.896	179.739	179.642	16
17	---	179.348	179.350	179.280	179.345	179.816	180.057	180.137	180.091	179.883	179.738	179.638	17
18	---	179.352	179.348	179.274	179.362	179.824	180.068	180.131	180.084	179.878	179.737	179.633	18
19	179.313A	179.350	179.345	179.276	179.372	179.836	180.074	180.131	180.066	179.872	179.726	179.630	19
20	179.314	179.353	179.341	179.265	179.383	179.846	180.082	180.132	180.053	179.867	179.720	179.625	20
21	179.318	179.357	179.338	179.267	179.398	179.847	180.086	180.136	180.038	179.870	179.712	179.622	21
22	179.325	179.353	179.339	179.259	179.414	179.853	180.096	180.136	180.042	179.865	179.739	179.615	22
23	179.321	179.349	179.339	179.261	179.432	179.867	180.099	180.144	180.054	179.857	179.733	179.615	23
24	179.323	179.348	179.343	179.262	179.442	179.875	180.100	180.133	180.037	179.856	179.721	179.612	24
25	179.324	179.345	179.336	179.265	179.456	179.876	180.102	180.131	180.041	179.856	179.719	179.607	25
26	179.326	179.351	179.336	179.275	179.474	179.888	180.108	180.140	180.035	179.846	179.714	179.601	26
27	179.334	179.349	179.337	179.284	179.491	179.899	180.115	180.144	180.024	179.829	179.708	179.596	27
28	179.331	179.348	179.336	179.285	179.502	179.894	180.120	180.148	180.018	179.828	179.706	179.601	28
29	179.328		179.333	179.304	179.518	179.915	180.113	180.151	180.021	179.834	179.703	179.593	29
30	179.329		179.329	179.307	179.536	179.935	180.117	180.147	180.022	179.814	179.702	179.588	30
31	179.332		179.324		179.553		180.120A	180.141		179.808		179.582	31
MEAN	---	179.346	179.339	179.291	179.375	179.773	180.049	180.146	180.082	179.904	179.755	179.641	MEAN
MAX	---	179.357	179.354	179.320	179.553	179.935	180.120	180.162	180.148	180.011	179.808	179.700	MAX
MIN	---	179.334	179.324	179.259	179.296	179.573	179.945	180.131	180.018	179.808	179.702	179.582	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 180.162 ON AUG 12
MINIMUM DAILY, 179.259 ON APR 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 49 47 N
LONG 094 05 00 W

A - MANUAL GAUGE
E - ESTIMATED

NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1980 ADJ.)
APPLY -1.750 m ADJUSTMENT TO CONVERT TO MANITOBA-ONTARIO BOUNDARY SURVEY DATUM

REMARKS - WATER LEVELS TO BE USED WITH CAUTION BECAUSE OF POOR RELATIONSHIP TO SURVEYED DATA

GODS RIVER BELOW ALLEN RAPIDS - STATION NO. 04AC005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	112E	103 B	96.8B	94.1B	97.7B	131	182	212	212	192	161	147	1
2	112E	102 B	96.6B	94.0B	98.0B	134	184	215	214	190	162	146	2
3	111E	102 B	96.4B	94.0B	98.2B	136	184	215	213	189	162	145	3
4	111E	102 B	96.3B	93.9B	98.7B	137	185	215	213	187	162	145	4
5	110E	102 B	96.1B	93.8B	99.0B	139	187	214	213	186	162	145	5
6	110E	102 B	95.9B	93.8B	99.3B	141	188	214	210	185	161	144	6
7	110E	101 B	95.8B	93.8B	101	143	189	215	212	184	162	144	7
8	109E	101 B	95.7B	93.8B	101	145	192	215	207	183	161	145	8
9	109E	101 B	95.6B	93.9B	101	147	192	216	206	183	161	145	9
10	109E	101 B	95.4B	94.0B	102	148	194	216	207	184	160	143	10
11	109E	101 B	95.3B	94.0B	102	150	194	216	203	183	158	143	11
12	108E	100 B	95.2B	94.1B	103	153	196	216	204	180	156	142	12
13	108E	100 B	95.1B	94.2B	103	154	197	215	204	179	155	142	13
14	108E	100 B	94.9B	94.3B	103	156	198	213	205	178	155	141	14
15	107E	99.8B	94.8B	94.4B	104	160	198	214	202	177	155	141	15
16	107E	99.6B	94.8B	94.5B	105	162	198	213	204	175	153	140	16
17	107E	99.3B	94.8B	94.6B	105	163	199	212	205	173	152	139	17
18	107E	99.2B	94.8B	94.7B	107	164	201	211	203	172	152	139	18
19	106A	99.0B	94.7B	94.8B	108	166	202	211	201	171	151	138	19
20	106	98.8B	94.7B	94.9B	110	167	203	211	198	171	150	138	20
21	106	98.6B	94.7B	95.1B	111	168	204	212	196	171	149	137	21
22	106	98.4B	94.6B	95.3B	113	168	205	212	197	170	153	136	22
23	105	98.2B	94.6B	95.5B	115	171	206	213	199	169	152	136	23
24	105	98.0B	94.6B	95.7B	116	172	206	211	196	169	150	136	24
25	105	97.8B	94.6B	95.9B	118	172	206	211	197	169	150	135	25
26	104	97.7B	94.6B	96.2B	120	174	207	212	196	167	149	135	26
27	104	97.5B	94.6B	96.6B	122	175	208	213	194	165	149	134	27
28	104	97.3B	94.4B	96.8B	123	175	209	214	193	165	148	133B	28
29	104		94.3B	97.1B	124	178	208	214	194	166	148	132B	29
30	103B		94.2B	97.3B	126	181	209	214	194	163	148	132B	30
31	103B		94.1B		128		209A	213		162		131B	31
TOTAL	3 325	2 797.2	2 949.0	2 845.1	3 361.9	4 730	6 140	6 618	6 092	5 458	4 647	4 329	TOTAL
MEAN	107	99.9	95.1	94.8	108	158	198	213	203	176	155	140	MEAN
MAX	112	103	96.8	97.3	128	181	209	216	214	192	162	147	MAX
MIN	103	97.3	94.1	93.8	97.7	131	182	211	193	162	148	131	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 146
MAXIMUM DAILY, 216 ON AUG 09
MINIMUM DAILY, 93.8B ON APR 05

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 01 35 N
LONG 093 50 10 W
DRAINAGE AREA, 25 900 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	287 000	JUL	530 000
FEB	242 000	AUG	572 000
MAR	255 000	SEP	526 000
APR	246 000	OCT	472 000
MAY	290 000	NOV	402 000
JUN	409 000	DEC	374 000

TOTAL DISCHARGE, 4 610 000 dam³

REMARKS - DISCHARGES TO BE USED WITH CAUTION BECAUSE OF INCONSISTENT WATER LEVEL DATA

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	164B	---	---	146B	295B	---	559	441	421	331	341	275B	1
2	163B	---	---	148B	308B	---	556	441	423	328	318	273B	2
3	164B	---	---	149B	315B	---	552	463	425	326	317	270B	3
4	162B	---	---	153B	324B	---	541	480	424	336	319	270B	4
5	160B	---	---	154B	360B	---	527	487	425	353	311	268B	5
6	159B	---	---	150B	449B	---	513	477	415	355	313	265B	6
7	158B	---	---	148B	539B	---	498	469	403	353	310	264B	7
8	156B	---	---	149B	628B	---	500	455	407	349	310	263B	8
9	157B	---	---	148B	732B	---	497	439	391	351	303	260B	9
10	155B	---	---	149B	830B	---	493	421	378	351	316B	259B	10
11	154B	---	---	151B	906B	---	485	401	375	355	310B	257B	11
12	154B	---	---	151B	991B	---	482	391	375	368	313B	255B	12
13	153B	---	---	152B	1 040B	---	476	393	363	377	311B	253B	13
14	153B	---	---	153B	1 080B	---	469	414	353	378	309B	251B	14
15	152B	---	---	154B	1 180B	---	458	424	356	378	307B	250B	15
16	152B	---	---	152B	---	---	450	426	357	378	305B	249B	16
17	---	---	---	150B	---	---	439	420	359	372	302B	246B	17
18	---	---	---	150B	---	---	435	407	360	360	300B	243B	18
19	---	---	---	148B	---	---	431	394	362	346	298B	241B	19
20	---	---	---	152B	---	---	440	389	362	338	297B	241B	20
21	---	---	---	153B	---	---	447	394	349	334	295B	239B	21
22	---	---	---	159B	---	---	445	386	342	340	294B	237B	22
23	---	---	---	172B	---	---	443	375	340	321	291B	235B	23
24	---	---	---	199B	---	---	442	370	337	319	287B	233B	24
25	---	---	---	232B	---	---	444	366	337	327	286B	232B	25
26	---	---	---	249B	---	599	444	373	335	312	285B	230B	26
27	---	---	---	245B	---	594	443	378	338	325	283B	228B	27
28	---	---	153B	240B	---	572	444	392	336	331	280B	226B	28
29	---	---	148B	241B	---	551	453	406	335	319	278B	223B	29
30	---		147B	264B	---	557	454	416	333	328	277B	223B	30
31	---		147B		---		447	414		339		222B	31
TOTAL	---	---	---	5 161	---	---	14 707	12 902	11 116	10 678	9 094	7 681	TOTAL
MEAN	---	---	---	172	---	---	474	416	371	344	303	248	MEAN
MAX	---	---	---	264	---	---	559	487	425	378	341	275	MAX
MIN	---	---	---	146	---	---	431	366	333	312	277	222	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 51 00 N
LONG 092 05 55 W
DRAINAGE AREA, 65 500 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 270 000
FEB	---	AUG	1 110 000
MAR	---	SEP	960 000
APR	446 000	OCT	923 000
MAY	---	NOV	786 000
JUN	---	DEC	664 000

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.088B	0	0	---	---	---	---	---	---	1
2	---	---	0 B	0.057B	0.003	0	---	---	---	---	---	---	2
3	---	---	0 B	0.071B	0.002	0	---	---	---	---	---	---	3
4	---	---	0 B	0.053B	0.003	0	---	---	---	---	---	---	4
5	---	---	0 B	0.034	0.003	0	---	---	---	---	---	---	5
6	---	---	0 B	0.025	0.003	0	---	---	---	---	---	---	6
7	---	---	0 B	0.018	0.002	0	---	---	---	---	---	---	7
8	---	---	0 B	0.013	0.001	0.002	---	---	---	---	---	---	8
9	---	---	0 B	0.009	0.001	0.003	---	---	---	---	---	---	9
10	---	---	0 B	0.006	0.001	0.002	---	---	---	---	---	---	10
11	---	---	0 B	0.004	0.001	0.001	---	---	---	---	---	---	11
12	---	---	0.001B	0.004	0	0	---	---	---	---	---	---	12
13	---	---	0.274B	0.003	0	0	---	---	---	---	---	---	13
14	---	---	0.180B	0.003	0	0	---	---	---	---	---	---	14
15	---	---	0.075B	0.002	0	0	---	---	---	---	---	---	15
16	---	---	0.014B	0.002	0.012	0	---	---	---	---	---	---	16
17	---	---	0.004B	0	0.016	0.001	---	---	---	---	---	---	17
18	---	---	0.002B	0	0.018	0.005	---	---	---	---	---	---	18
19	---	---	0.004B	0	0.010	0.005	---	---	---	---	---	---	19
20	---	---	0.003B	0	0.008	0.005	---	---	---	---	---	---	20
21	---	---	0.002B	0	0.007	0.003	---	---	---	---	---	---	21
22	---	---	0 B	0	0.006	0.002	---	---	---	---	---	---	22
23	---	---	0 B	0	0.004	0.002	---	---	---	---	---	---	23
24	---	---	0 B	0	0.003	0.001	---	---	---	---	---	---	24
25	---	---	0.001B	0	0.002	0.001	---	---	---	---	---	---	25
26	---	---	0.002B	0	0.002	0	---	---	---	---	---	---	26
27	---	---	0.001B	0	0.001	0	---	---	---	---	---	---	27
28	---	---	0.003B	0	0.001	0	---	---	---	---	---	---	28
29	---	---	0.031B	0	0	0	---	---	---	---	---	---	29
30	---		0.124B	0	0		---	---	---	---	---	---	30
31	---		0.153B		0								31
TOTAL	---	---	0.874	0.392	0.110	0.033	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.028	0.013	0.004	0.001	---	---	---	---	---	---	MEAN
MAX	---	---	0.274	0.088	0.018	0.005	---	---	---	---	---	---	MAX
MIN	---	---	0	0	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.012
MAXIMUM DAILY, 0.274B ON MAR 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.830B AT 15:30 CST ON MAR 13

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 13 27 N
LONG 098 58 36 W
DRAINAGE AREA, 50 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	75.5	SEP	---
APR	33.9	OCT	---
MAY	9.50	NOV	---
JUN	2.85	DEC	---

TOTAL DISCHARGE, 122 dam³

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0 B	0.088B	0.002	0 A	0.001	0	0	0	---	---
2	---	---	0 B	0.138B	0.001	0 E	0.001	0	0	0	---	---
3	---	---	0 B	0.172B	0.001	0 E	1.33	0	0	0	---	---
4	---	---	0 B	0.633E	0.001	0 A	1.90	0	0	0	---	---
5	---	---	0 B	1.07 A	0	0	0.757	0	0			
6	---	---	0 B	1.32 E	0	0	0.461	0	0	0	---	---
7	---	---	0 B	1.22 E	0	0	0.312	0	0	0	---	---
8	---	---	0.002B	0.828E	0	0	0.230	0	0	0	---	---
9	---	---	0.012B	0.596E	0	0	0.119	0	0	0	---	---
10	---	---	0.008B	0.330E	0	0	0.090	0	0			
11	---	---	0.004B	0.182A	0	0	0.054	0	0	0	---	---
12	---	---	0.002B	0.121E	0	0	0.028	0	0	0	---	---
13	---	---	0.001B	0.088E	0	0	0.012	0A	0	0	---	---
14	---	---	0.001B	0.065E	0	0	0.005	0	0	0	---	---
15	---	---	0.001B	0.053E	0	0	0.002	0	0			
16	---	---	0.001B	0.038E	0.010	0	0.001	0	0	0	---	---
17	---	---	0.001B	0.025A	0.010	0.008	0	0	0A	0	---	---
18	---	---	0.002B	0.020E	0.003	0.030	0	0	0	0	---	---
19	---	---	0.022B	0.010E	0.007	0.005	0	0	0	0	---	---
20	---	---	0.078B	0.005E	0.018	0.014	0	0	0			
21	---	---	0.061B	0.002E	0.010	0.023	0	0	0	0	---	---
22	---	---	0.038B	0.001E	0.007	0.008	0	0	0	0	---	---
23	---	---	0.031B	0.001E	0.003	0.007	0	0	0	0	---	---
24	---	---	0.026B	0.001E	0.002	0.014	0	0	0	0	---	---
25	---	---	0.022B	0.002E	0.001	0.012	0	0	0			
26	---	---	0.018B	0.002A	0	0.004	0	0	0	0	---	---
27	---	---	0.023B	0.019	0	0.006	0	0	0	0	---	---
28	---	---	0.032B	0.014	0	0.009	0	0	0	0A	---	---
29	---	---	0.050B	0.004	0	0.004	0	0	0	0	---	---
30	---		0.078B	0.002	0	0.002	0	0	0	0	---	---
31	---		0.107B		0							
TOTAL	---	---	0.621	7.050	0.076	0.146	5.303	0	0	0	---	---
MEAN	---	---	0.020	0.235	0.003	0.005	0.171	0	0	0	---	---
MAX	---	---	0.107	1.32	0.018	0.030	1.90	0	0	0	---	---
MIN	---	---	0	0.001	0	0	0					

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.054
MAXIMUM DAILY, 1.90 ON JUL 04
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.90 AT 01:06 CST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 00 N
LONG 100 57 52 W
DRAINAGE AREA, 298 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	458
FEB	---	AUG	0
MAR	53.7	SEP	0
APR	609	OCT	0
MAY	6.57	NOV	---
JUN	12.6	DEC	---

TOTAL DISCHARGE, 1 140 dam

GOUDNEY RESERVOIR NEAR PILOT MOUND - STATION NO. 05OB803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	451.784	451.766	451.757	451.636	451.331	451.209	---	---	1
2	---	---	---	---	451.793	451.776	451.756	451.640	451.326	451.203	---	---	2
3	---	---	---	---	451.793	451.788	451.768	451.632	451.320	451.196	---	---	3
4	---	---	---	---	451.788	451.781	451.769	451.623	451.314	451.189	---	---	4
5	---	---	---	---	451.784	451.782	451.763	451.615	451.308	451.186	---	---	5
6	---	---	---	451.876A	451.781	451.779	451.761	451.608	451.305	451.181	---	---	6
7	---	---	---	451.872E	451.780	451.774	451.769	451.598	451.301	451.176	---	---	7
8	---	---	---	451.868E	451.780	451.782	451.770	451.589	451.294	451.173	---	---	8
9	---	---	---	451.864E	451.779	451.784	451.768	451.581	451.288	451.170	---	---	9
10	---	---	---	451.859E	451.780	451.778	451.763	451.575	451.283	451.167	---	---	10
11	450.559A	---	---	451.855E	451.779	451.782	451.758	451.576	451.276	451.164	---	---	11
12	---	---	---	451.851	451.779	451.777	451.753	451.575	451.267	451.162	---	451.059A	12
13	---	---	---	451.846E	451.777	451.772	451.748	451.570	451.263	451.159	---	---	13
14	---	---	---	451.841E	451.778	451.766	451.739	451.568	451.255	451.155	---	---	14
15	---	---	---	451.836E	451.784	451.764	451.733	451.565	451.248	451.153A	---	---	15
16	---	---	---	451.831E	451.812	451.763	451.726	451.561	451.241	---	---	---	16
17	---	---	---	451.826E	451.810	451.769	451.719	451.555	451.237	---	---	---	17
18	---	---	---	451.821	451.797	451.787	451.714	451.549	451.247	---	---	---	18
19	---	---	---	451.818	451.789	451.819	451.709	451.540	451.245	---	---	---	19
20	---	---	---	451.809	451.785	451.800	451.703	451.510	451.240	---	---	---	20
21	---	---	---	451.806	451.783	451.789	451.697	451.369	451.235	---	---	---	21
22	---	---	---	451.805	451.784	451.781	451.691	451.354	451.231	---	---	---	22
23	---	---	---	451.800	451.784	451.779	451.687	451.358	451.228	---	---	---	23
24	---	---	---	451.798	451.783	451.777	451.684	451.355	451.224	---	---	---	24
25	---	---	---	451.794	451.778	451.774	451.679	451.358	451.222	---	---	---	25
26	---	---	---	451.785	451.774	451.774	451.671	451.356	451.220	---	---	---	26
27	---	---	---	451.781	451.776	451.771	451.665	451.360	451.217	---	---	---	27
28	---	---	451.356A	451.773	451.778	451.768	451.658	451.358	451.216	---	---	---	28
29	---		---	451.776	451.778	451.762	451.650	451.351	451.218	---	---	---	29
30	---		---	451.781	451.775	451.758	451.643	451.345	451.214	---	---	---	30
31	450.514A		---		451.769		451.637	451.337		---		---	31
MEAN	---	---	---	---	451.784	451.777	451.720	451.502	451.260	---	---	---	MEAN
MAX	---	---	---	---	451.812	451.819	451.770	451.640	451.331	---	---	---	MAX
MIN	---	---	---	---	451.769	451.758	451.637	451.337	451.214	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 12 30 N
LONG 098 57 03 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1966
DRAINAGE AREA, 154 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "PILOT MOUND RESERVOIR"

GRACE LAKE NEAR THE PAS - STATION NO. 05KJ002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	260.248	260.290	260.230	260.134	260.049	259.997	---	---	1
2	---	---	---	---	260.250	260.282	260.230	260.127	260.047	260.014	---	---	2
3	---	---	---	---	260.252	260.275	260.234	260.122	260.040	259.986	---	---	3
4	---	---	---	---	260.254	260.277	260.227	260.119	260.034	259.990	---	---	4
5	---	---	---	---	260.259	260.281	260.221	260.117	260.031	259.994	---	---	5
6	---	---	---	---	260.263	260.278	260.222	260.112	260.032	259.990	---	---	6
7	---	---	---	---	260.267	260.278	260.225	260.109	260.021	259.991	---	---	7
8	---	---	---	---	260.280	260.273	260.224	260.099	260.018	259.990	---	---	8
9	---	---	---	260.183A	260.284	260.271	260.224	260.097	260.014	259.991	---	---	9
10	---	---	---	---	260.286	260.273	260.221	260.092	260.012	259.992	---	---	10
11	---	---	---	---	260.287	260.276	260.219	260.092	260.013	259.994	---	---	11
12	---	---	---	---	260.287	260.276	260.214	260.086	260.020	260.012	---	---	12
13	---	---	260.152A	---	260.287	260.278	260.209	260.085	260.015	260.013	---	---	13
14	---	---	---	---	260.289	260.272	260.199	260.086	260.013	260.010	---	---	14
15	---	---	---	---	260.291	260.266	260.192	260.085	260.013	260.009	---	---	15
16	---	---	---	---	260.296	260.265	260.189	260.079	260.011	260.008	---	---	16
17	---	---	---	---	260.294	260.261	260.183	260.075	260.006	260.008	---	---	17
18	---	---	---	---	260.293	260.261	260.180	260.073	259.996	260.012	---	---	18
19	---	---	---	---	260.296	260.259	260.179	260.069	259.999	260.014	---	---	19
20	---	---	---	---	260.305	260.255	260.177	260.063	260.013	260.010	---	---	20
21	---	---	---	---	260.307	260.251	260.174	260.064	260.013	260.013	---	---	21
22	---	---	---	---	260.310	260.250	260.169	260.063	260.011	260.015	---	---	22
23	---	---	---	260.207A	260.311	260.246	260.170	260.059	260.011	260.008	---	---	23
24	---	---	---	260.207	260.313	260.241	260.167	260.060	260.011	260.010	---	---	24
25	---	---	---	260.211	260.307	260.236	260.165	260.058	260.009	260.008	---	---	25
26	---	---	---	260.217	260.303	260.232	260.163	260.055	260.001	260.006	---	---	26
27	---	---	---	260.219	260.305	260.238	260.160	260.057	260.004	260.001	---	---	27
28	---	---	260.156A	260.228	260.298	260.236	260.147	260.056	260.006	260.005	---	---	28
29	---		---	260.247	260.291	260.238	260.143	260.051	260.003	259.998	---	---	29
30	---		---	260.249	260.294	260.237	260.131	260.052	260.000	260.006	---	---	30
31	---		---		260.291		260.133	260.046		260.006		---	31
MEAN	---	---	---	---	260.287	260.262	260.191	260.082	260.016	260.003	---	---	MEAN
MAX	---	---	---	---	260.313	260.290	260.234	260.134	260.049	260.015	---	---	MAX
MIN	---	---	---	---	260.248	260.232	260.131	260.046	259.996	259.986	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 260.313 ON MAY 24
MINIMUM DAILY, 259.986 ON OCT 03
MAXIMUM INSTANTANEOUS,
260.318 AT 13:12 CST ON MAY 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 49 00 N
LONG 101 12 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1955
DRAINAGE AREA, 28.5 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0	0	0	0	0	0	0	0	---	---
2	---	---	0	0	0	0	0	0	0	0	---	---
3	---	---	0	0	0	0	0	0	0	0	---	---
4	---	---	0	0	0	0	0	0	0	0	---	---
5	---	---	0	0	0	0	0	0	0	0	---	---
6	---	---	0	0	0	0	0	0	0	0	---	---
7	---	---	0	0	0	0	0	0	0	0	---	---
8	---	---	0	0	0	0	0	0	0	0	---	---
9	---	---	0	0	0	0	0	0	0	0	---	---
10	---	---	0	0	0	0	0	0	0	0	---	---
11	---	---	0	0	0	0	0	0	0	0	---	---
12	---	---	0	0	0	0	0	0	0	0	---	---
13	---	---	0	0	0	0	0	0	0	0	---	---
14	---	---	0	0	0	0	0	0	0	0	---	---
15	---	---	0	0	0	0	0	0	0	0	---	---
16	---	---	0	0	0	0	0	0	0	0	---	---
17	---	---	0	0	0	0	0	0	0	0	---	---
18	---	---	0	0	0	0	0	0	0	0	---	---
19	---	---	0	0	0	0	0	0	0	0	---	---
20	---	---	0	0	0	0	0	0	0	0	---	---
21	---	---	0	0	0	0	0	0	0	0	---	---
22	---	---	0	0	0	0	0	0	0	0	---	---
23	---	---	0	0	0	0	0	0	0	0	---	---
24	---	---	0	0	0	0	0	0	0	0	---	---
25	---	---	0	0	0	0	0	0	0	0	---	---
26	---	---	0	0	0	0	0	0	0	0	---	---
27	---	---	0	0	0	0	0	0	0	0	---	---
28	---	---	0	0	0	0	0	0	0	0	---	---
29	---	---	0	0	0	0	0	0	0	0	---	---
30	---		0		0	0	0	0	0	0	---	---
31	---		0		0		0		0	0		---
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---
MEAN	---	---	0	0	0	0	0	0	0	0	---	---
MAX	---	---	0	0	0	0	0	0	0	0	---	---
MIN	---	---	0	0	0	0	0	0	0	0	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0 ON MAR 01
MINIMUM DAILY, 0 ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 50 N
LONG 100 59 45 W
DRAINAGE AREA, 730 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

GRANVILLE LAKE AT GRANVILLE LAKE - STATION NO. 06EB002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	259.633E	259.650	259.596	259.549	259.645	259.981	---	---	---	260.110	260.076	260.004
2	259.633A	259.651	259.588	259.553	259.646	259.981	---	---	---	260.112	260.072	260.003
3	259.634	259.656	259.585	259.557	259.654	259.983	---	---	---	260.135	260.065	260.003
4	259.631	259.659	259.581	259.558	259.658	259.988	---	---	---	260.107	260.058	260.007
5	259.630	259.658	259.578	259.560	259.664	259.988	---	---	---	260.108	260.056	260.004
6	259.637	259.661	259.575	259.562	259.673	259.987	---	---	---	260.109	260.050	260.007
7	259.638	259.660	259.572	259.564	259.680	259.988	---	---	---	260.119	260.047	260.006
8	259.639	259.662	259.568	259.565	259.684	259.982	---	---	---	260.115	260.044	260.006
9	259.640	259.663	259.569	259.564	259.692	259.986	---	---	---	260.104	260.036	260.006
10	259.643	259.662	259.570	259.566	259.702	259.980	---	---	---	260.116	260.031	260.005
11	259.643	259.662	259.571	259.568	259.709	259.990	---	---	---	260.093	260.026	260.008
12	259.640	259.660	259.566	259.571	259.719	259.998	---	---	260.211A	260.123	260.025	260.009
13	259.643	259.653	259.559	259.572	259.728	259.994	---	---	260.210	260.123	260.023	260.010
14	259.642	259.652	259.555	259.576	259.741	259.985	---	---	260.186	260.118	260.016	260.013
15	259.641	259.650	259.552	259.578	259.756	259.970	---	---	260.198	260.100	260.014	260.016
16	259.644	259.647	259.546	259.577	259.772	259.972	---	---	260.190	260.099	260.010	260.020
17	259.642	259.645	259.540	259.581	259.784	259.966	---	---	260.174	260.113	260.007	260.017
18	259.641	259.643	259.540	259.586	259.801	259.958	---	---	260.143	260.104	260.001	260.020A
19	259.643	259.641	259.540	259.585	259.818	---	---	---	260.165	260.103	259.999	---
20	259.646	259.641	259.537	259.581	259.838	---	---	---	260.171	260.109	259.999	---
21	259.651	259.636	259.535	259.584	259.858	---	---	---	260.164	260.109	259.999	---
22	259.654	259.629	259.531	259.590	259.875	---	---	---	260.152	260.103	260.003	---
23	259.658	259.623	259.532	259.595	259.893	---	---	---	260.150	260.107	260.003	---
24	259.657	259.619	259.534	259.602	259.909	---	---	---	260.151	260.104	260.001	---
25	259.660	259.617	259.533	259.607	259.925	---	---	---	260.141	260.104	259.996	---
26	259.663	259.613	259.531	259.606	259.938	---	---	---	260.116	260.089	259.993	---
27	259.659	259.610	259.533	259.610	259.954	---	---	---	260.128	260.070	259.996	---
28	259.658	259.607	259.539	259.618	259.956	---	---	---	260.133	260.086	259.993	---
29	259.655		259.544	259.637	259.961	---	---	---	260.115	260.057	259.996	---
30	259.652		259.547	259.641	259.968	---	259.524A	---	260.114	260.087	260.005	---
31	259.651		259.549		259.976		---	---		260.080		---
MEAN	259.645	259.644	259.555	259.582	259.793	---	---	---	---	260.104	260.021	---
MAX	259.663	259.663	259.596	259.641	259.976	---	---	---	---	260.135	260.076	---
MIN	259.630	259.607	259.531	259.549	259.645	---	---	---	---	260.057	259.993	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 13 40 N
LONG 100 35 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1
DRAINAGE AREA, 244 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "GRANVILLE LAKE AT PICKEREL NARROWS"

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	32.7A	58.2	52.6A	36.1	28.2	23.9	23.3	1
2	---	---	---	---	---	36.0E	58.7	52.1E	36.0	27.3	24.2	23.0	2
3	---	---	---	---	---	37.0E	55.3	51.5E	36.8	26.4	24.8	22.7	3
4	---	---	---	---	---	36.6E	56.2	51.0A	37.1	27.7	24.6	22.5	4
5	---	---	---	---	---	37.1E	58.8	52.2	35.7	28.2	24.4	23.0	5
6	---	---	---	---	---	37.6A	58.7	52.2	33.9	27.5	24.6	22.9	6
7	---	---	---	---	---	38.4	57.5	52.7	36.0	26.8	24.2	22.7	7
8	---	---	---	---	---	39.2	57.8	49.4	34.8	26.2	24.3	22.7	8
9	---	---	---	---	---	37.8	58.2	47.3	33.2	26.4	24.5	22.9	9
10	---	---	---	---	---	39.4	59.2	48.0	32.8	26.0	24.4	22.6	10
11	---	---	---	---	---	39.1	57.7	47.2	30.8	27.2	24.3	22.5A	11
12	---	---	---	---	---	40.9	62.6	47.1	30.9	26.3	23.9	22.4A	12
13	---	---	---	---	---	41.7	61.3	47.1	30.8	24.8	23.1	22.4	13
14	---	---	---	---	---	46.4	58.9	47.1	32.2	27.0	23.4	22.4	14
15	16.5A	---	---	---	---	49.1	58.9	46.3	31.0	27.6	23.4	22.2	15
16	---	---	---	---	---	49.3	58.4	44.9	31.9	26.6	23.1	22.0	16
17	---	---	---	---	---	48.4	56.5	42.3	32.7	25.4	23.0	22.0	17
18	---	---	---	---	---	49.1	56.1	42.1	34.4	24.6	23.1	21.8	18
19	---	---	---	---	---	49.8	55.4	42.2	31.2	24.0	22.8	21.6	19
20	---	---	---	---	---	50.1	54.4	44.0	29.0	25.0	22.8	21.4	20
21	---	---	---	---	---	51.1	55.7	43.2	28.8	25.4	22.8	21.2	21
22	---	---	---	---	---	52.0	55.2	41.6	29.9	25.2	23.8	21.2	22
23	---	---	---	---	---	56.5	55.1	41.5	30.2	25.0	24.1	21.3	23
24	---	---	---	---	---	53.5	53.0	39.5	29.0	25.0	23.7	21.3	24
25	---	---	---	---	---	52.9	52.9	39.5	30.2	24.9	23.6	21.2	25
26	---	---	---	---	---	55.8	52.7	39.4	30.7	25.0	23.3	20.9	26
27	---	---	---	---	---	56.0	53.1	39.0	28.4	25.1	23.1	20.7	27
28	---	---	---	---	---	54.5	53.6	39.0	27.8	24.4	23.0	21.1	28
29	---	---	---	---	36.4A	57.5	54.1	37.9	28.7	24.7	22.8	21.0	29
30	---		17.7A	---	36.2	59.5	52.3	35.9	28.4	24.4	23.0	20.7	30
31	---		---		36.7		52.1	34.6		23.9		---	31
TOTAL	---	---	---	---	---	1 385.0	1 748.6	1 391.7	959.4	800.8	710.0	---	TOTAL
MEAN	---	---	---	---	---	46.2	56.4	44.9	32.0	25.8	23.7	---	MEAN
MAX	---	---	---	---	---	59.5	62.6	52.7	37.1	28.2	24.8	---	MAX
MIN	---	---	---	---	---	32.7	52.1	34.6	27.8	23.9	22.8	---	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 62.6 ON JUL 12

MAXIMUM INSTANTANEOUS,
66.2 AT 13:00 CST ON JUL 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 44 35 N
LONG 097 00 00 W
DRAINAGE AREA, 15 400 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	151 000
FEB	---	AUG	120 000
MAR	---	SEP	82 900
APR	---	OCT	69 200
MAY	---	NOV	61 300
JUN	120 000	DEC	---

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.86	4.23	4.60	4.22	6.45	7.89	8.45	6.23	3.43	2.05	1.65	2.58	1
2	3.82	4.15	4.43	4.32	6.41	7.79	8.09	6.11	3.52	1.66	2.08	2.49	2
3	3.83	4.23	4.36	4.32	6.25	8.38	7.63	5.84	3.46	2.29	2.33	2.44	3
4	3.85	4.30	4.34	4.19	6.28	8.51	8.03	5.80	3.57	2.14	2.33	2.53	4
5	3.86	4.28	4.40	4.19	6.61	8.24	8.26	5.73	3.31	2.04	2.41	2.58	5
6	3.87	4.32	4.45	4.23	6.44	8.46	8.00	5.73	3.09	1.99	2.44	2.48	6
7	3.87	4.26	4.59	4.28	6.50	8.46	7.98	5.66	3.45	1.99	2.40	2.51	7
8	3.91	4.31	4.60	4.22	6.80	8.63	8.09	5.26	2.96	1.94	2.45	2.59	8
9	3.98	4.37	4.79	4.26	7.22	8.46	8.00	4.93	2.90	1.95	2.42	2.52	9
10	4.03	4.35	4.57	4.26	7.17	8.74	8.15	4.99	2.96	1.95	2.36	2.45	10
11	4.16	4.35	4.51	4.29	7.36	8.84	8.18	4.82	2.72	2.28	2.29	2.43	11
12	4.10	4.32	4.36	4.26	7.36	8.96	8.35	4.97	2.64	2.16	2.21	2.46	12
13	4.04	4.41	4.48	4.22	7.50	8.42	8.20	4.85	2.80	2.18	2.21	2.52	13
14	4.14	4.43	4.52	4.24	7.61	8.99	7.92	4.74	2.86	2.27	2.35	2.49	14
15	4.17	4.35	4.36	4.23	7.56	9.59	7.66	4.64	2.68	2.35	2.33	2.46	15
16	4.17	4.34	4.42	4.20	7.36	9.31	7.60	4.39	2.81	2.25	2.25	2.42	16
17	4.15	4.38	4.43	4.21	7.60	8.98	7.36	4.23	2.85	2.14	2.31	2.37	17
18	4.09	4.38	4.43	4.28	8.02	9.15	7.33	4.24	2.73	2.13A	2.36	2.36	18
19	4.09	4.35	4.45	4.24	7.94	8.85	7.10	4.24	2.46	2.13E	2.27	2.36	19
20	4.03	4.44	4.34	4.35	7.82	8.57	6.95	4.28	2.40	2.13E	2.20	2.33A	20
21	4.25	4.47	4.38	4.57	8.05	8.46	7.00	4.22	2.43	2.13E	2.27	2.31E	21
22	4.28	4.36	4.34	4.70	8.11	8.67	6.96	4.14	2.57	2.13E	2.72	2.30E	22
23	4.26	4.37	4.34	5.06	8.23	8.97	6.91	4.14	2.62	2.15E	2.75	2.28E	23
24	4.32	4.36	4.37	5.19	8.29	8.77	6.61	3.99	2.49	2.15E	2.71	2.26E	24
25	4.34	4.36	4.29	5.22	8.32	8.58	6.47	3.66	2.56	2.15E	2.68	2.25E	25
26	4.39	4.45	4.22	5.42	8.47	8.79	6.34	3.63	2.46	2.16E	2.64	2.23E	26
27	4.31	4.41	4.21	5.73	7.88	8.46	6.50	3.67	2.27	2.15E	2.65	2.21E	27
28	4.25	4.54	4.24	5.53	8.17	8.35	6.65	3.74	2.16	2.15E	2.62	2.20E	28
29	4.26		4.37	6.25	8.40	8.52	6.53	3.64	2.31	2.16A	2.56	2.18E	29
30	4.26		4.41	6.38	8.48	8.62	6.73	3.52	2.25	1.79	2.63	2.16E	30
31	4.24		4.23		8.64		6.45	3.37		1.70		2.15E	31
TOTAL	127.18	121.83	136.83	139.06	233.30	259.41	230.48	143.40	83.72	64.78	71.88	73.90	TOTAL
MEAN	4.10	4.35	4.41	4.64	7.53	8.65	7.43	4.63	2.79	2.09	2.40	2.38	MEAN
MAX	4.39	4.54	4.79	6.38	8.64	9.59	8.45	6.23	3.57	2.35	2.75	2.59	MAX
MIN	3.82	4.15	4.21	4.19	6.25	7.79	6.34	3.37	2.16	1.62	1.65	2.15	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.62
MAXIMUM DAILY, 9.59 ON JUN 15
MINIMUM DAILY, 1.62 ON OCT 02
MAXIMUM INSTANTANEOUS,
10.2 AT 05:32 CST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 47 20 N
LONG 099 58 10 W
DRAINAGE AREA, 3 250 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	11 000	JUL	19 900
FEB	10 500	AUG	12 400
MAR	11 800	SEP	7 230
APR	12 000	OCT	5 600
MAY	20 200	NOV	6 210
JUN	22 400	DEC	6 380

TOTAL DISCHARGE, 146 000 dam³

GRASSMERE CREEK DRAIN NEAR MIDDLECHURCH - STATION NO. 05QJ017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	6.92 B	0.028	0.010	0.015	0	0	0	---	---	1
2	---	---	0 B	5.54 B	0.028	2.28	0.009	0	0	0	---	---	2
3	---	---	0 B	5.25 B	0.027	2.10	0.007	0	0	0	---	---	3
4	---	---	0 B	3.81 B	0.026	0.541	0.006	0	0	0	---	---	4
5	---	---	0 B	2.38 B	0.025	0.133	0.004	0					5
6	---	---	0 B	0.953B	0.026	0.074	0.002	0	0	0	---	---	6
7	---	---	0 B	1.50 B	0.024	0.056	0.011	0	0	0	---	---	7
8	---	---	0 B	1.33 B	0.024	0.067	0.061	0	0	0	---	---	8
9	---	---	0 B	1.16 B	0.018	0.567	0.066	0	0	0	---	---	9
10	---	---	0 B	0.990B	0.016	1.14	0.062	0					10
11	---	---	0 B	0.827B	0.015	1.66	0.066	0	0	0	---	---	11
12	---	---	0 B	0.650B	0.013	1.91	0.069	0	0	0	---	---	12
13	---	---	0.133B	0.850B	0.011	1.27	0.061	0	0	0	---	---	13
14	---	---	0.250B	0.862B	0.010	1.95	0.050	0	0	0	---	---	14
15	---	---	0.200B	0.875B	0.008	1.58	0.039	0					15
16	---	---	0.100B	0.785B	0.010	0.760	0.029	0A	0	0	---	---	16
17	---	---	0.089B	0.695E	0.206	0.243	0.024	0	0	0	---	---	17
18	---	---	0.044B	0.605A	0.137	0.121	0.021	0	0	0	---	---	18
19	---	---	0 B	0.556	0.101	0.087	0.018	0	0	0	---	---	19
20	---	---	0 B	0.514	0.073	0.141	0.014	0					20
21	---	---	0 B	0.209	0.055	0.331	0.011	0	0	0	---	---	21
22	---	---	0 B	0.098	0.044	0.292	0.008	0	0	0	---	---	22
23	---	---	0 B	0.070	0.030	0.135	0.007	0	0	0	---	---	23
24	---	---	0 B	0.050	0.020	0.088	0.005	0	0	0	---	---	24
25	---	---	0 B	0.045	0.015	0.055	0.004	0					25
26	---	---	0 B	0.042	0.011	0.037	0.003	0	0	0	---	---	26
27	---	---	0 B	0.035	0.009	0.025	0.001	0	0	0	---	---	27
28	---	---	0 B	0.034	0.008	0.018	0	0	0	0	---	---	28
29	---	---	0.050B	0.031	0.007	0.013	0	0	0	0	---	---	29
30	---	---	0.935B	0.032	0.007	0.020	0	0		0.018A			30
31	---		4.24 B		0.007		0	0					31
TOTAL	---	---	6.041	37.698	1.039	17.724	0.675	0	0	0.018	---	---	TOTAL
MEAN	---	---	0.195	1.26	0.034	0.591	0.022	0	0	0.001	---	---	MEAN
MAX	---	---	4.24	6.92	0.206	2.28	0.069	0	0	0.018	---	---	MAX
MIN	---	---	0	0.031	0.007	0.010	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.258
MAXIMUM DAILY, 6.92B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
7.90B AT 03:24 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 00 08 N
LONG 097 07 01 W
DRAINAGE AREA, 471 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	58.3
FEB	---	AUG	0
MAR	522	SEP	0
APR	3 260	OCT	1.56
MAY	89.8	NOV	---
JUN	1 530	DEC	---

TOTAL DISCHARGE, 5 460 dam³

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "GRASSMERE DRAIN NEAR MIDDLECHURCH"

GULL LAKE AT SHERWOOD - STATION NO. 05SA801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	253.075E	253.152E	253.076	252.955E	---	---	---	1
2	---	---	---	---	---	253.086E	253.147	253.066E	252.956E	---	---	---	2
3	---	---	---	---	---	253.097E	253.152E	253.056E	252.956E	---	---	---	3
4	---	---	---	---	---	253.108	253.157	253.046	252.956	---	252.855	---	4
5	---	---	252.977	---	---	253.108E	253.157E	253.046E	252.951E	---		---	5
6	---	---	---	---	---	253.108	253.157E	253.045E	252.946	---	---	---	6
7	---	---	---	---	---	253.118E	253.157	253.045	252.946E	---	---	---	7
8	---	---	---	---	---	253.128	253.157E	253.035E	252.946	---	---	---	8
9	---	---	---	---	---	253.136E	253.157	253.025	252.931E	---	---	---	9
10	---	---	---	---	---	253.143E	253.157E	253.018E	252.916	---	---	---	10
11	---	---	---	---	253.072	253.151E	253.156	253.010	---	---	---	---	11
12	---	---	---	---	---	253.158	253.149E	253.003E	---	---	---	---	12
13	---	---	---	---	---	253.158E	253.143E	252.995	---	---	---	---	13
14	---	---	---	---	---	253.157	253.136	253.001	---	---	---	---	14
15	---	---	---	---	---	253.157E	253.131E	253.010	---	---	---	---	15
16	---	---	---	---	---	253.157	253.126	252.998E	---	---	---	---	16
17	---	---	---	---	---	253.157E	253.121E	252.987E	---	---	---	---	17
18	---	---	---	---	---	253.157	253.116	252.975	---	---	---	---	18
19	---	---	---	---	---	253.162E	253.116E	252.979E	---	---	---	---	19
20	---	---	---	---	253.068	253.167	253.116E	252.983		---	---	---	20
21	---	---	---	---	253.071E	253.172E	253.116	252.975	---	---	---	---	21
22	---	---	---	---	253.075E	253.177	253.111E	252.972E	252.916	---	---	---	22
23	---	---	---	---	253.078	253.174E	253.106	252.968E	---	---	---	---	23
24	---	---	---	---	---	253.172E	253.101E	252.965	---	---	---	---	24
25	---	---	---	---	---	253.169E	253.096	252.965	---	---	---	---	25
26	---	---	---	---	---	253.167	253.086E	252.965E	---	---	---	---	26
27	---	---	---	---	---	253.162E	253.076	252.965	---	---	---	---	27
28	---	---	---	---	---	253.157	253.076E	252.960E	---	---	---	---	28
29	---		---	---	---	253.157E	253.076E	252.955	---	---	---	---	29
30	---		---	---	253.053	253.157	253.076	252.955E	---	---	---	---	30
31	---		---		253.064E		253.076E	252.955		---	---	---	31
MEAN	---	---	---	---	---	253.145	253.124	253.000	---	---	---	---	MEAN
MAX	---	---	---	---	---	253.177	253.157	253.076	---	---	---	---	MAX
MIN	---	---	---	---	---	253.075	253.076	252.955	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 253.177 ON JUN 22

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 24 56 N
LONG 096 11 05 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
4.14 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.73B	3.64B	3.98B	3.96B	47.0	47.7	28.4	11.1	5.98	3.42	2.61	2.91	1
2	3.89B	3.81B	3.51B	3.87B	43.0	46.2	26.9	11.1	5.72	3.26	2.65	2.77	2
3	3.88B	4.21B	3.39B	4.22B	40.0	44.9	25.5	10.7	5.64	3.36	2.97	2.66	3
4	3.81B	4.41B	3.49B	4.25B	42.7	42.0	24.5	10.3	5.47	3.08	3.09	2.54	4
5	3.71B	4.14B	3.60B	4.05B	53.7	41.5	23.8	9.91	5.32	2.85	3.25	2.39	5
6	4.05B	4.05B	3.72B	4.03B	65.5	43.2	22.7	9.75	4.98	2.82	3.26	2.35	6
7	4.18B	3.78B	3.94B	4.04B	72.6	43.1	22.2	9.45	4.80	2.67	3.27	2.37	7
8	4.14B	3.91B	3.96B	3.93B	77.4	42.6	21.7	8.95	4.62	2.54	3.22	2.39	8
9	4.11B	4.12B	3.91B	3.78B	78.4	40.9	21.7	8.46	4.50	2.45	3.15	2.33	9
10	4.31B	4.11B	3.62B	3.64B	74.2	40.3	21.0	8.25	4.46	2.57	3.08	2.30	10
11	4.35B	4.05B	3.59B	3.74B	69.6	39.8	20.4	8.26	4.39	2.57	3.06	2.29	11
12	4.10B	4.11B	3.59B	3.72B	67.0	41.5	19.8	8.02	4.10	2.30	3.03	2.26	12
13	4.05B	3.94B	3.69B	3.68B	65.1	41.4	19.1	7.98	4.02	2.51	2.98	2.26	13
14	4.03B	3.95B	3.79B	3.64B	64.3	40.7	18.3	8.11	4.10	2.54	2.93	2.22	14
15	3.96B	3.90B	3.94B	3.81B	64.4	39.7	17.3	7.84	3.90	2.62	2.85	2.25	15
16	4.06B	3.82B	4.49B	3.77B	63.9	38.3	16.5	7.58	3.83	2.48	2.78	2.33	16
17	3.96B	3.86B	4.32B	3.83B	68.2	37.0	16.5	7.32	3.89	2.47	2.71	2.36	17
18	3.79B	4.02B	4.00B	4.18B	68.8	35.8	16.3	7.11	3.76A	2.50	2.68	2.34	18
19	3.81B	4.03B	4.03B	4.96B	68.4	33.6	15.9	7.00	3.64	2.44	2.65	2.33	19
20	3.78B	4.31B	3.75B	6.08B	69.2	33.3	15.6	6.88	3.81	2.49	2.61	2.31	20
21	3.97B	4.32B	3.54B	8.40B	69.2	32.1	15.4	6.78	4.55	2.48	2.64	2.24	21
22	4.05B	3.90B	3.53B	11.8	68.4	32.3	14.9	6.59	4.64	2.53	2.58	2.16	22
23	3.89B	3.81B	3.40B	18.9	67.1	30.8	14.5	7.47	4.63	2.58	2.85	2.14	23
24	3.86B	3.71B	3.68B	32.1	66.7	29.8	14.1	6.98	4.39	2.53	3.41	1.95	24
25	3.84B	3.81B	3.61B	47.2	64.7	28.6	13.6	6.98	4.12	2.54	3.39	1.89	25
26	3.96B	3.99B	3.50B	54.2	63.0	27.9	13.4	6.63	3.90	2.51	3.28	1.83	26
27	3.75B	3.89B	3.67B	56.9	60.0	26.8	12.8	6.47	3.58	2.40	3.23	1.80	27
28	3.49B	3.94B	3.73B	57.4	57.3	28.7	12.9	6.76	3.60	2.24	3.16	1.80	28
29	3.63B		4.03B	55.7	54.7	30.4	12.3	6.72	3.52	2.50	3.06	1.73	29
30	3.74B		4.26B	51.5	51.9	29.5	11.8	6.59	3.45	2.68	2.96	1.64	30
31	3.75B		4.30B		49.5		11.4	6.33		2.63		1.65	31
TOTAL	121.63	111.54	117.58	475.28	1 935.5	1 110.6	561.7	248.71	131.31	81.56	89.39	68.79	TOTAL
MEAN	3.92	3.98	3.79	15.8	62.4	37.0	18.1	8.02	4.38	2.63	2.98	2.22	MEAN
MAX	4.35	4.41	4.49	57.4	78.4	47.7	28.4	11.1	5.98	3.42	3.41	2.91	MAX
MIN	3.49	3.64	3.39	3.64	40.0	26.8	11.4	6.33	3.45	2.24	2.58	1.64	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 13.8
MAXIMUM DAILY, 78.4 ON MAY 09
MINIMUM DAILY, 1.64 ON DEC 30
MAXIMUM INSTANTANEOUS,
81.5 AT 11:35 CST ON MAY 09

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 47 10 N
LONG 097 40 20 W
DRAINAGE AREA, 4 500 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	10 500	JUL	48 500
FEB	9 640	AUG	21 500
MAR	10 200	SEP	11 300
APR	41 100	OCT	7 050
MAY	167 000	NOV	7 720
JUN	96 000	DEC	5 940

TOTAL DISCHARGE, 436 000 dam³

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	252B	227B	218B	216B	---	---	829	612	557	473	424	353B	1
2	251B	227B	218B	216B	---	---	822	613	569	477	429	348B	2
3	250B	226B	217B	216B	---	---	814	625	575	478	426	345B	3
4	249B	226B	217B	216B	---	---	795	642	571	475	430	342B	4
5	247B	226B	217B	216B	---	---	770	647	568	471	436	337B	5
6	246B	226B	217B	216B	---	---	752	640	562	485	435	333B	6
7	245B	225B	217B	216B	---	---	737	628	554	490	440B	329B	7
8	244B	225B	217B	216B	---	---	726	615	535	492	441B	326B	8
9	244B	224B	217B	216B	---	---	717	598	531	492	442B	323B	9
10	243B	223B	217B	216B	---	---	715	581	523	489	442B	319B	10
11	242B	223B	217B	216B	---	---	707	559	516	495	437B	315B	11
12	241B	222B	217B	216B	---	---	696	546	507	497	434B	312B	12
13	241B	221B	217B	216B	---	---	687	547	493	510	430B	307B	13
14	240B	221B	217B	216B	---	---	684	548	486	517	426B	304B	14
15	239B	220B	217B	216B	---	---	670	555	486	514	423B	301B	15
16	238B	220B	217B	216B	---	---	652	562	487	517	417B	297B	16
17	237B	220B	217B	217B	---	---	644	562	488	517	413B	295B	17
18	236B	220B	217B	217B	---	---	634	556	491	511	408B	292B	18
19	236B	220B	217B	217B	---	---	628	543	492	497	404B	289B	19
20	235B	220B	217B	217B	---	---	624	531	496	491	401B	286B	20
21	235B	220B	216B	217B	---	---	625	526	493	486	396B	283B	21
22	234B	220B	216B	217B	---	---	626	522	484	470	392B	280B	22
23	233B	220B	216B	217B	---	---	623	517	474	479	387B	277B	23
24	232B	220B	216B	217B	---	---	627	510	470	476	383B	274B	24
25	232B	219B	215B	218B	---	---	624	505	466	461	379B	272B	25
26	231B	219B	215B	218B	---	916A	621	500	467	474	374B	269B	26
27	230B	219B	215B	219B	---	902	619	502	469	470	370B	267B	27
28	230B	218B	215B	219B	---	882	618	505	475	443	366B	265B	28
29	229B		215B	220B	---	851	618	516	474	434	363B	263B	29
30	229B		215B	220B	---	832	619	523	472	420	357B	260B	30
31	228B		215B		---		618	538		450		257B	31
TOTAL	7 399	6 217	6 711	6 506	---	---	21 141	17 374	15 231	14 951	12 305	9 320	TOTAL
MEAN	239	222	216	217	---	---	682	560	508	482	410	301	MEAN
MAX	252	227	218	220	---	---	829	647	575	517	442	353	MAX
MIN	228	218	215	216	---	---	618	500	466	420	357	257	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 215B ON MAR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 25 55 N
LONG 092 47 19 W
DRAINAGE AREA, 103 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	639 000	JUL	1 830 000
FEB	537 000	AUG	1 500 000
MAR	580 000	SEP	1 320 000
APR	562 000	OCT	1 290 000
MAY	---	NOV	1 060 000
JUN	---	DEC	805 000

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.61B	9.04B	8.73B	8.78B	28.7B	52.4	50.8	47.0	35.5	30.8	22.7	18.5B	1
2	9.57B	9.00B	8.73B	8.82B	29.4B	50.6	53.4	45.5	36.3	30.3	22.5	18.4B	2
3	9.52B	9.00B	8.73B	8.86B	29.6B	51.8	50.7	45.9	35.8	27.4	23.2	18.2B	3
4	9.48B	9.00B	8.73B	8.91B	29.9B	53.2	49.1	46.8	36.2	28.4	23.6	18.1B	4
5	9.44B	9.00B	8.73B	8.95B	30.1B	53.6	48.7	45.3	36.5	29.1	24.1	17.9B	5
6	9.39B	9.00B	8.73B	9.04B	30.4	54.1	50.0	45.1	36.7	29.4	24.3	17.8B	6
7	9.39B	8.95B	8.73B	9.17B	30.5	55.1	49.5	44.5	36.5	28.7	24.6	17.6B	7
8	9.39B	8.95B	8.73B	9.26B	30.9	55.3	49.3	44.5	40.6	28.0	24.7	17.5B	8
9	9.35B	8.95B	8.73B	9.39B	32.0	55.4	48.9	41.7	36.4	27.4	24.8	17.3B	9
10	9.35B	8.95B	8.73B	9.52B	33.6	55.5	50.0	41.3	35.2	27.1	23.4	17.2B	10
11	9.30B	8.91B	8.69B	9.70B	33.1	55.7	50.9	41.1	33.8	27.6	22.8	17.1B	11
12	9.30B	8.91B	8.69B	9.96B	33.3	57.4	51.1	40.8	32.8	28.5	22.5B	17.0B	12
13	9.30B	8.91B	8.69B	10.3 B	33.6	57.2	52.2	40.8	32.6	27.0	22.3B	16.9B	13
14	9.30B	8.91B	8.69B	11.0 B	34.8	57.8	52.3	41.1	33.2	26.8	22.1B	16.7B	14
15	9.26B	8.91B	8.69B	11.7 B	35.3	58.7	51.4	40.0	34.1	27.0	21.8B	16.6B	15
16	9.26B	8.86B	8.69B	12.4 B	36.1	59.3	50.4	39.3	33.6	27.5	21.6B	16.5B	16
17	9.22B	8.86B	8.69B	13.2 B	36.6	57.8	50.8	37.6	33.2	27.0	21.3B	16.4B	17
18	9.22B	8.82B	8.69B	14.0 B	38.3	55.9	51.8	35.6	32.6	26.9	21.1B	16.2B	18
19	9.17B	8.82B	8.69B	14.8 B	40.1	55.2	51.1	36.6	33.0	25.8	20.9B	16.1B	19
20	9.17B	8.82B	8.69B	15.6 B	41.9	53.8	50.9	36.2	34.0	25.2	20.7B	16.0B	20
21	9.17B	8.82B	8.69B	16.5 B	43.0	54.0	50.3	35.6	31.6	25.9	20.5B	15.9B	21
22	9.17B	8.78B	8.69B	17.3 B	45.0	52.8	50.2	35.5	30.7	26.0	20.2B	15.8B	22
23	9.17B	8.78B	8.69B	18.2 B	46.4	52.8	50.4	34.6	31.7	25.1	20.0B	15.7B	23
24	9.13B	8.78B	8.69B	19.3 B	46.3	52.6	51.4	33.8	31.8	25.2	19.8B	15.6B	24
25	9.13B	8.78B	8.69B	20.4 B	48.3	49.3	49.3	33.4	31.4	25.5	19.6B	15.5B	25
26	9.13B	8.78B	8.69B	21.3 B	49.8	49.8	49.1	33.6	31.7	25.2	19.2B	15.3B	26
27	9.08B	8.73B	8.73B	22.8 B	49.0	49.8	49.2	33.7	32.2	24.6	19.4B	15.3B	27
28	9.08B	8.73B	8.73B	24.2 B	48.6	49.2	49.3	34.2	31.7	25.4	19.0B	15.2B	28
29	9.04B		8.73B	25.3 B	49.0	49.6	49.3	34.8	31.5	25.7	18.9B	15.1B	29
30	9.04B		8.73B	27.2 B	50.1	49.9	48.5	33.9	31.5	25.9	18.7B	15.0B	30
31	9.04B		8.73B		52.0		47.9	34.2		24.4			31
TOTAL	287.13	248.70	269.99	425.86	1 195.7	1 615.6	1 558.2	1 213.8	1 015.3	835.1	650.3	513.4	TOTAL
MEAN	9.26	8.88	8.71	14.2	38.6	53.9	50.3	39.2	33.8	26.9	21.7	16.6	MEAN
MAX	9.61	9.04	8.73	27.4	52.0	59.3	53.4	47.0	40.6	30.8	24.8	18.5	MAX
MIN	9.04	8.73	8.69	8.78	28.7	49.2	47.9	33.4	30.7	24.4	18.7	15.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 26.9
MAXIMUM DAILY, 59.3 ON JUN 16
MINIMUM DAILY, 8.69B ON MAR 11
MAXIMUM INSTANTANEOUS, 60.2 AT 17:50 CST ON JUN 15

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 51 23 N
LONG 095 07 12 W
DRAINAGE AREA, 9 190 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	24 800	JUL	135 000
FEB	21 500	AUG	105 000
MAR	23 300	SEP	97 700
APR	36 800	OCT	72 200
MAY	103 000	NOV	56 200
JUN	140 000	DEC	44 400

TOTAL DISCHARGE, 850 000 dam³

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05OA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0	0	0	0.071	0.002	0.001	0	0	0	0	0	0	1
2	0	0	0	0.048	0.002	0.002	0	0	0	0	0	0	2
3	0	0	0	0.093	0.002	0.006	0	0	0	0	0	0	3
4	0	0	0	0.122	0.003	0.003	0	0	0	0	0	0	4
5	0	0	0	0.074	0.002	0.002	0	0	0	0	0	0	5
6	0	0	0	0.079	0.002	0.001	0	0	0	0	0	0	6
7	0	0	0	0.068	0.002	0.001	0	0	0	0	0	0	7
8	0	0	0	0.054	0.001	0.001	0	0	0	0	0	0	8
9	0	0	0	0.040	0.001	0.001	0	0	0	0	0	0	9
10	0	0	0	0.031	0.001	0.001	0	0	0	0	0	0	10
11	0	0	0	0.025	0.001	0.001	0	0	0	0	0	0	11
12	0	0	0	0.021	0.001	0	0	0	0	0	0	0	12
13	0	0	0	0.019	0.001	0	0	0	0	0	0	0	13
14	0	0	0	0.017	0.001	0	0	0	0	0	0	0	14
15	0	0	0	0.014	0.001	0	0	0	0	0	0	0	15
16	0	0	0	0.012	0.005	0	0	0	0	0	0	0	16
17	0	0	0	0.008	0.005	0	0	0	0	0	0	0	17
18	0	0	0	0.007	0.003	0	0	0	0	0	0	0	18
19	0	0	0	0.007	0.002	0	0	0	0	0	0	0	19
20	0	0	0	0.006	0.002	0	0	0	0	0	0	0	20
21	0	0	0	0.005	0.002	0	0	0	0	0	0	0	21
22	0	0	0	0.005	0.002	0	0	0	0	0	0	0	22
23	0	0	0	0.004	0.001	0	0	0	0	0	0	0	23
24	0	0	0	0.003	0.001	0	0	0	0	0	0	0	24
25	0	0	0	0.005	0.001	0	0	0	0	0	0	0	25
26	0	0	0	0.004	0.001	0	0	0	0	0	0	0	26
27	0	0	0	0.002	0.001	0	0	0	0	0	0	0	27
28	0	0	0	0.002	0.001	0	0	0	0	0	0	0	28
29	0		0.001	0.002	0.001	0	0	0	0	0	0	0	29
30	0		0.031		0.001		0			0	0	0	30
31	0		0.054										31
TOTAL	0	0	0.086	0.850	0.053	0.020	0	0	0	0	0	0	TOTAL
MEAN	0	0	0.003	0.028	0.002	0.001	0	0	0	0	0	0	MEAN
MAX	0	0	0.054	0.122	0.005	0.006	0	0	0	0	0	0	MAX
MIN	0	0	0	0.002	0.001	0	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.003
MAXIMUM DAILY, 0.122 ON APR 04
MINIMUM DAILY, 0 ON JAN 01
MAXIMUM INSTANTANEOUS, 0.144 AT 18:45 CST ON APR 03

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 57 10 N
LONG 099 25 35 W
DRAINAGE AREA, 68.1 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	0
FEB	0	AUG	0
MAR	7.43	SEP	0
APR	73.4	OCT	0
MAY	4.58	NOV	0
JUN	1.73	DEC	0

TOTAL DISCHARGE, 87.1 dam³

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.083B	20.6 B	1.54	0.897	1.09 E	0.167	0.031	0.259	---	---	1
2	---	---	0.080B	27.3 B	1.41	1.01	0.869E	0.309	0.035	0.269	---	---	2
3	---	---	0.075B	23.4 B	1.30	1.13	0.597E	0.274	0.042	0.273	---	---	3
4	---	---	0.075B	20.6 B	1.20	1.70	0.433A	0.193	0.036	0.287	---	---	4
5	---	---	0.070B	11.7 B	1.11	1.54	0.512	0.141	0.029	0.295	---	---	5
6	---	---	0.070B	11.0 B	1.02	1.28	0.852	0.160	0.035	0.297	---	---	6
7	---	---	0.065B	11.3 B	0.920	1.35	1.06	0.134	0.036	0.293	---	---	7
8	---	---	0.100B	9.05B	0.991	1.20	1.10	0.081	0.035	0.272	---	---	8
9	---	---	0.125B	7.27B	1.09	1.29	1.15 A	0.053	0.010	0.307	---	---	9
10	---	---	0.125B	6.07B	1.26	1.80	0.874E	0.028	0.009	0.314	---	---	10
11	---	---	0.135B	5.52B	1.16	1.69	0.686A	0.016	0.028	0.677	---	---	11
12	---	---	0.135B	4.76B	1.10	1.38	0.666	0.015A	0.052	0.481	---	---	12
13	---	---	0.500B	3.99B	0.922	1.20	0.552	0.021E	0.058	0.257	---	---	13
14	---	---	0.540B	3.71B	0.866	1.05	0.442	0.061E	0.063	0.197	---	---	14
15	---	---	0.650B	3.70B	0.824	0.863	0.372	0.044E	0.058	0.157	---	---	15
16	---	---	0.750B	3.72B	0.752	0.643	0.319A	0.020E	0.058	0.114	---	---	16
17	---	---	0.725B	3.61B	1.17	0.504	0.324	0.018A	0.057	0.086	---	---	17
18	---	---	0.825B	3.30	2.46	0.362	0.323	0.022	0.093	0.075	---	---	18
19	---	---	0.816B	3.75	2.08	0.290	0.326	0.029	0.108	0.079	---	---	19
20	---	---	0.807B	3.69	1.77	0.484	0.386A	0.027	0.130	0.095	---	---	20
21	---	---	0.897B	3.05	1.47	1.31	0.397	0.032	0.129	0.120	---	---	21
22	---	---	0.787B	2.56	1.28	2.12	0.352	0.024	0.212	0.124	---	---	22
23	---	---	0.671B	2.52	1.21	1.92	0.241	0.027	0.299	0.126	---	---	23
24	---	---	0.557B	2.14	1.22	1.48	0.182	0.038	0.196	0.126	---	---	24
25	---	---	0.417B	1.98	1.17	1.22	0.142	0.045	0.175	0.379	---	---	25
26	---	---	0.350B	2.59	1.10	1.05	0.171	0.039	0.212	0.301	---	---	26
27	---	---	0.303B	2.32	1.04	0.883	0.185	0.031	0.235	0.173	---	---	27
28	---	---	0.255B	1.92	0.958	0.759	0.228	0.034	0.227	0.120	---	---	28
29	---	---	0.280B	1.65	0.915	0.762	0.328	0.032	0.226	0.105	---	---	29
30	---		0.694B	1.55	0.883	1.28 A	0.259	0.034	0.243	0.118	---	---	30
31	---		5.66 B		0.898		0.240	0.033		0.134		---	31
TOTAL	---	---	17.622	210.32	37.089	34.447	15.658	2.182	3.157	6.880	---	---	TOTAL
MEAN	---	---	0.569	7.01	1.20	1.15	0.505	0.070	0.105	0.222	---	---	MEAN
MAX	---	---	5.66	27.3	2.46	2.12	1.15	0.309	0.299	0.677	---	---	MAX
MIN	---	---	0.065	1.55	0.752	0.290	0.142	0.015	0.009	0.075	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.34
MAXIMUM DAILY, 27.3B ON APR 02
MINIMUM DAILY, 0.009 ON SEP 10
MAXIMUM INSTANTANEOUS,
28.8B AT 13:28 CST ON APR 02

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 35 N
LONG 097 02 10 W

DRAINAGE AREA, 1 270 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 350
FEB	---	AUG	189
MAR	1 520	SEP	273
APR	18 200	OCT	594
MAY	3 200	NOV	---
JUN	2 980	DEC	---

TOTAL DISCHARGE, 28 300 dam³

ISLAND LAKE NEAR ISLAND LAKE - STATION NO. 04AC002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	228.044	227.987	227.931	227.877	228.042	228.643	228.625	228.460	228.279	228.104	227.956	227.914	1
2	228.042	227.984	227.922	227.875	228.053	228.642	228.613	228.456	228.281	228.107	227.962	227.915	2
3	228.037	227.985	227.921	227.874	228.064	228.642	228.609	228.443	228.266	228.104	227.949	227.913	3
4	228.037	227.988	227.917	227.871	228.075	228.653	228.598	228.437	228.247	228.058	227.952	227.917	4
5	228.032	227.983	227.915	227.867	228.091	228.658	228.591	228.434	228.241	228.041	227.962	227.915	5
6	228.034	227.983	227.914	227.864	228.110	228.654	228.585	228.432	228.236	228.043	227.935	227.911	6
7	228.038	227.976	227.912	227.865	228.130	228.663	228.583	228.427	228.229	228.051	227.953	227.912	7
8	228.037	227.973	227.912	227.865	228.150	228.664	228.576	228.411	228.204	228.056	227.957	227.915	8
9	228.034	227.975	227.908	227.860	228.171	228.665	228.571	228.402	228.203	228.057	227.922	227.912	9
10	228.033	227.973	227.900	227.859	228.198	228.669	228.568	228.393	228.198	228.058	227.903	227.909	10
11	228.033	227.965	227.903	227.858	228.221	228.673	228.563	228.387	228.193	228.020	227.887	227.909	11
12	228.028	227.964	227.902	227.857	228.247	228.680	228.548	228.381	228.193	228.023	227.910	227.908	12
13	228.026	227.964	227.903	227.855	228.272	228.682	228.542	228.370	228.188	228.034	227.937	227.906	13
14	228.025	227.965	227.899	227.850	228.300	228.683	228.534	228.367	228.178	228.019	227.933	227.907	14
15	228.021	227.963	227.901	227.849	228.326	228.681	228.518	228.381	228.166	228.002	227.929	227.903	15
16	228.022	227.958	227.918	227.844	228.353	228.681	228.508	228.370	228.172	227.997	227.927	227.903	16
17	228.016	227.951	227.918	227.843	228.374	228.684	228.512	228.358	228.168	228.010	227.928	227.898	17
18	228.005	227.957	227.921	227.844	228.405	228.685	228.514	228.356	228.141	228.008	227.922	227.896	18
19	228.003	227.956	227.920	227.843	228.437	228.681	228.511	228.352	228.134	228.012	227.919	227.892	19
20	228.004	227.957	227.914	227.844	228.460	228.677	228.507	228.343	228.143	228.006	227.920	227.888	20
21	228.006	227.955	227.914	227.846	228.485	228.673	228.500	228.336	228.141	227.994	227.922	227.886	21
22	228.006	227.944	227.909	227.852	228.506	228.662	228.495	228.336	228.141	227.996	227.927	227.887	22
23	228.001	227.940	227.907	227.869	228.523	228.662	228.489	228.336	228.135	227.991	227.921	227.887	23
24	227.996	227.939	227.902	227.892	228.545	228.661	228.488	228.327	228.145	227.991	227.926	227.884	24
25	227.996	227.939	227.902	227.919	228.565	228.657	228.436	228.321	228.136	227.990	227.921	227.880	25
26	228.002	227.939	227.894	227.953	228.582	228.644	228.484	228.317	228.117	227.984	227.923	227.880	26
27	228.001	227.936	227.887	227.973	228.593	228.640	228.481	228.313	228.111	227.941	227.925	227.884	27
28	227.996	227.937	227.886	227.992	228.603	228.637	228.467	228.305	228.115	227.958	227.924	227.882	28
29	227.995		227.885	228.019	228.618	228.627	228.449	228.302	228.118	227.951	227.922	227.879	29
30	227.993		227.884	228.030	228.629	228.626	228.448	228.301	228.114	227.962	227.921	227.878	30
31	227.992		227.879		228.639		228.463	228.288		227.961		227.876	31
MEAN	228.017	227.962	227.906	227.884	228.347	228.662	228.530	228.369	228.178	228.017	227.930	227.898	MEAN
MAX	228.044	227.988	227.931	228.030	228.639	228.685	228.625	228.460	228.281	228.107	227.962	227.917	MAX
MIN	227.992	227.936	227.879	227.843	228.042	228.626	228.448	228.288	228.111	227.941	227.887	227.876	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 228.143
MAXIMUM DAILY, 228.685 ON JUN 18
MINIMUM DAILY, 227.843 ON APR 17
MAXIMUM INSTANTANEOUS,
228.692 AT 20:00 CST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 52 00 N
LONG 094 40 25 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW

WATER LEVELS ARE REFERRED TO MANITOBA-ONTARIO BOUNDARY SURVEY DATUM

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	66.3	59.6	53.4	47.4	66.1	176	172	137	100	73.9	56.2	51.5	1
2	66.0	59.3	52.4	47.2	67.4	176	169	136	101	74.1	56.8	51.6	2
3	65.4	59.4	52.2	47.1	68.8	176	168	133	97.9	73.8	55.5	51.4	3
4	65.4	59.7	51.8	46.7	70.1	178	166	132	94.7	68.0	55.7	51.8	4
5	64.8	59.2	51.6	46.3	72.2	179	164	131	93.6	65.9	56.8	51.6	5
6	65.0	59.2	51.6	46.0	74.6	178	163	131	92.9	66.1	53.8	51.2	6
7	65.5	58.4	51.2	46.1	77.1	180	163	130	91.7	67.1	55.9	51.3	7
8	65.4	58.1	51.2	46.1	79.7	180	161	126	87.5	67.8	56.3	51.6	8
9	65.0	58.1	50.8	45.5	82.7	181	160	124	87.3	68.0	52.4	51.3	9
10	64.9	58.0	50.0	45.4	86.6	182	160	122	86.7	68.0	50.3	51.0	10
11	64.9	57.2	50.3	45.3	90.3	182	158	121	85.9	63.5	48.5	51.0	11
12	64.3	57.1	50.2	45.3	94.7	184	155	120	85.9	63.8	51.1	50.8	12
13	64.0	57.1	50.3	45.0	99.0	185	154	118	85.1	65.0	54.1	50.6	13
14	63.9	57.2	49.9	44.4	104	185	152	117	83.8	63.2	53.6	50.7	14
15	63.4	57.0	50.0	44.3	109	184	149	120	82.1	61.3	53.2	50.3	15
16	63.5	56.4	51.9	43.8	115	184	147	118	82.8	60.7	52.9	50.3	16
17	62.8	55.6	51.9	43.7	119	185	148	116	82.4	62.2	53.1	49.7	17
18	61.6	56.2	51.9	43.9	125	185	148	115	78.6	62.0	52.5	49.5	18
19	61.4	56.2	52.2	43.8	132	184	147	114	77.6	62.4	52.1	49.1	19
20	61.5	56.3	52.5	43.8	137	184	147	113	78.6	61.8	52.2	48.7	20
21	61.7	56.0	51.5	44.0	142	183	145	111	78.5	60.4	52.4	48.4	21
22	61.7	54.9	51.0	44.7	146	180	144	111	78.5	60.6	53.0	48.5	22
23	61.2	54.4	50.8	46.6	150	180	143	111	77.7	60.1	52.3	48.6	23
24	60.6	54.3	50.2	49.0	155	180	142	110	79.1	60.1	52.8	48.1	24
25	60.6	54.3	50.2	52.0	159	179	142	108	77.9	59.9	52.3	47.7	25
26	61.3	54.3	49.3	55.9	162	176	142	108	75.5	59.3	52.5	47.7	26
27	61.2	53.9	48.5	58.1	165	175	141	107	74.7	54.5	52.7	48.2	27
28	60.6	54.1	48.4	60.2	167	174	138	105	75.2	56.4	52.6	47.9	28
29	60.5		48.3	63.1	170	172	134	105	75.6	56.6	52.4	47.6	29
30	60.3		48.1	64.5	173	172	134	105	75.1	56.8	52.3	47.5	30
31	60.2		47.6		175		137	102		56.7		47.3	31
TOTAL	1 954.9	1 591.7	1 570.5	1 445.2	3 634.3	5 399	4 693	3 657	2 523.9	1 959.0	1 598.3	1 542.5	TOTAL
MEAN	63.1	56.8	50.7	48.2	117	180	151	118	84.1	63.2	53.3	49.8	MEAN
MAX	66.3	59.7	53.4	64.5	175	185	172	137	101	74.1	56.8	51.8	MAX
MIN	60.2	53.9	47.6	43.7	66.1	172	134	102	74.7	54.5	48.5	47.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 86.5
MAXIMUM DAILY, 185 ON JUN 13
MINIMUM DAILY, 43.7 ON APR 17
MAXIMUM INSTANTANEOUS,
187 AT 20:00 CST ON JUN 12

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 03 34 N
LONG 094 39 34 W
DRAINAGE AREA, 14 000 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	169 000	JUL	405 000
FEB	138 000	AUG	316 000
MAR	136 000	SEP	218 000
APR	125 000	OCT	169 000
MAY	314 000	NOV	138 000
JUN	466 000	DEC	133 000

TOTAL DISCHARGE, 2 730 000 dam³

JACKFISH LAKE NEAR GRANDVIEW - STATION NO. 05LJ807

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	695.093	695.127	695.087	693.841	695.337	695.642	695.511	695.544	695.471	695.218E	694.734	694.737	1
2	695.087	695.127	695.087	693.841	695.346	695.615	695.514	695.541	695.462	695.176E	694.734	694.734	2
3	695.093	695.130	695.084	693.838	695.349	695.584	695.517	695.535	695.462	695.133E	694.731	694.737	3
4	695.090	695.130	695.084	693.838	695.349	695.563	695.520	695.529	695.459	695.090E	694.731	694.737	4
5	695.093	695.130	695.081	693.835	695.349	695.560	695.520	695.523	695.459	695.048	694.731	694.734	5
6	695.096	695.127	695.081	693.835	695.346	695.544	695.523	695.520	695.456	695.048	694.731	694.734	6
7	695.096	695.124	695.078	693.835	695.346	695.532	695.535	695.514	695.453	695.039	694.731	694.734	7
8	695.096	695.124	695.078	693.832	695.343	695.508	695.547	695.511	695.450	695.026	694.731	694.734	8
9	695.096	695.124	695.075	693.832	695.346	695.493	695.550	695.505	695.447	695.039	694.728	694.731	9
10	695.099	695.118	695.075	693.832	695.346	695.484	695.550	695.499	695.444	695.026	694.728	694.731	10
11	695.099	695.112	695.078	693.832	695.343	695.487	695.566	695.493	695.438	694.971	694.725	694.737	11
12	695.106	695.112	695.081	693.832	695.334	695.490	695.584	695.490	695.435	694.904	694.721	694.746	12
13	695.109	695.112	695.081	693.832	695.325	695.493	695.584	695.487	695.432	694.846	694.718	694.746	13
14	695.106	695.109	695.087	693.828	695.316	695.496	695.578	695.487	695.429	694.786	694.715	694.746	14
15	695.103	695.112	695.087	693.825	695.310	695.502	695.575	695.483	695.426	694.740	694.715	694.743	15
16	695.103	695.109	695.084	693.822	695.346	695.508	695.569	695.487	695.426	694.737	694.715	694.743	16
17	695.106	695.109	695.084	693.841	695.374	695.511	695.566	695.483	695.422	694.737	694.712	694.743	17
18	695.106	695.106	695.087	693.841	695.383	695.517	695.578	695.477	695.416	694.700	694.712	694.746	18
19	695.103	695.099	695.084	693.908	695.395	695.526	695.581	695.471	695.413	694.737	694.709	694.746	19
20	695.109	695.096	695.084	693.911	695.426	695.529	695.578	695.468	695.410	694.740	694.706	694.746	20
21	695.109	695.093	695.081	693.926	695.453	695.520	695.575	695.465	695.407	694.740	694.734	694.746	21
22	695.106	695.093	695.081	693.932	695.532	695.514	695.575	695.462	695.404	694.737	694.737	694.754E	22
23	695.112	695.099	695.084	693.947	695.612	695.511	695.572	695.471	695.404	694.743	694.737	694.762E	23
24	695.109	695.093	695.075	694.106	695.672	695.508	695.569	695.474	695.404	694.737	694.737	694.771E	24
25	695.115	695.090	695.075	694.557	695.733	695.487	695.566	695.474	695.401	694.737	694.737	694.779E	25
26	695.118	695.090	695.017	695.099	695.743	695.480	695.563	695.487	695.398	694.737	694.737	694.787E	26
27	695.112	695.090	694.590	695.246	695.740	695.477	695.563	695.487	695.389	694.737	694.737	694.795E	27
28	695.118	695.087	694.167	695.291	695.724	695.487	695.563	695.487	695.346E	694.737	694.737	694.804E	28
29	695.124		693.889	695.316	695.706	695.517	695.560	695.483	695.304E	694.734	694.737	694.812E	29
30	695.121		693.847	695.331	695.685	695.514	695.551	695.480	695.261E	694.734		694.820E	30
31	695.124		693.844		695.663		695.547	695.474				694.828E	31
MEAN	695.105	695.110	694.916	694.119	695.460	695.520	695.556	695.493	695.418	694.866	694.728	694.756	MEAN
MAX	695.124	695.130	695.087	695.331	695.743	695.642	695.584	695.544	695.471	695.218	694.737	694.828	MAX
MIN	695.087	695.087	693.844	693.822	695.310	695.477	695.511	695.462	695.261	694.700	694.706	694.731	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 695.089
MAXIMUM DAILY, 695.743 ON MAY 26
MINIMUM DAILY, 693.822 ON APR 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 23 58 N
LONG 100 48 05 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1967
DRAINAGE AREA,
30.3 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "ABOVE JACKFISH LAKE DAM"

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0B	0	0	0	0	0	0	---	---	1
2	---	---	0B	0B	0	0	0	0	0	0	---	---	2
3	---	---	0B	0B	0	0	0	0	0	0	---	---	3
4	---	---	0B	0B	0	0	0	0	0	0	---	---	4
5	---	---	0B	0B	0	0	0	0	0	0	---	---	5
6	---	---	0B	0B	0	0	0	0	0	0	---	---	6
7	---	---	0B	0B	0	0	0	0	0	0	---	---	7
8	---	---	0B	0	0	0	0	0	0	0	---	---	8
9	---	---	0B	0	0	0	0	0	0	0	---	---	9
10	---	---	0B	0	0	0	0	0	0	0	---	---	10
11	---	---	0B	0	0	0	0	0	0	0	---	---	11
12	---	---	0B	0	0	0	0	0	0	0	---	---	12
13	---	---	0B	0	0	0	0	0	0	0	---	---	13
14	---	---	0B	0	0	0	0	0	0	0	---	---	14
15	---	---	0B	0	0	0	0	0	0	0	---	---	15
16	---	---	0B	0	0	0	0	0	0	0	---	---	16
17	---	---	0B	0	0	0	0	0	0	0	---	---	17
18	---	---	0B	0	0	0	0	0	0	0	---	---	18
19	---	---	0B	0	0	0	0	0	0	0	---	---	19
20	---	---	0B	0	0	0	0	0	0	0	---	---	20
21	---	---	0B	0	0	0	0	0	0	0	---	---	21
22	---	---	0B	0	0	0	0	0	0	0	---	---	22
23	---	---	0B	0	0	0	0	0	0	0	---	---	23
24	---	---	0B	0	0	0	0	0	0	0	---	---	24
25	---	---	0B	0	0	0	0	0	0	0	---	---	25
26	---	---	0B	0	0	0	0	0	0	0	---	---	26
27	---	---	0B	0	0	0	0	0	0	0	---	---	27
28	---	---	0B	0	0	0	0	0	0	0	---	---	28
29	---	---	0B	0	0	0	0	0	0	0	---	---	29
30	---		0B	0	0	0	0	0	0	0	---	---	30
31	---		0B		0		0	0		0		---	31
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0B ON MAR 01
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 18 00 N
LONG 100 57 50 W
DRAINAGE AREA, 490 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

JACKSON LAKE NEAR SYDNEY - STATION NO. 05LL802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	356.031	355.467E	---	---	354.561E	354.644E	---	1
2	---	---	---	---	---	356.051	355.425E	---	---	354.559E	354.653E	---	2
3	---	---	---	---	---	356.071	355.383E	---	---	354.558E	354.661	---	3
4	---	---	---	---	---	356.071E	355.341	---	---	354.556E	354.661	---	4
5	---	---	355.415	---	---	356.071	---	---	354.690	354.555E	354.669E	---	5
6	---	---	---	355.921	---	356.071	---	---	354.681E	354.553E	354.678E	---	6
7	---	---	---	---	---	356.111E	---	---	354.672E	354.551E	354.686E	---	7
8	---	---	---	---	---	356.151	---	---	354.663	354.550E	354.694E	---	8
9	---	---	---	---	---	356.151	---	---	354.654E	354.548	354.703E	---	9
10	355.325	---	---	---	356.059	356.111	---	---	354.645E	354.545E	354.711	---	10
11	---	---	---	355.982	356.060E	356.069E	---	---	354.636E	354.542	---	354.709	11
12	---	---	---	---	356.061	356.028E	---	---	354.627E	354.547E	---	---	12
13	---	---	---	---	356.051	355.986E	---	---	354.618E	354.552	---	---	13
14	---	---	---	---	356.051	355.944E	---	---	354.609E	354.558E	---	---	14
15	---	---	---	---	356.121	355.903E	---	---	354.600E	354.564	---	---	15
16	---	---	---	---	356.121	355.861	---	---	354.591	354.561	---	---	16
17	---	---	---	---	356.161	355.761	---	---	354.579E	354.568E	---	---	17
18	---	---	---	356.048	356.141E	355.701E	---	---	354.566	354.574E	---	---	18
19	---	---	---	---	356.121E	355.641	---	---	354.562E	354.581	---	---	19
20	---	---	---	---	356.101E	355.641E	---	---	354.559E	354.586E	---	---	20
21	---	---	---	---	356.081	355.641E	---	---	354.555	354.591	---	---	21
22	---	---	---	---	356.071	355.641	---	---	354.558E	354.591	---	---	22
23	---	---	---	---	356.071	355.631E	---	---	354.560	354.591	---	---	23
24	---	---	---	---	356.061E	355.621E	---	---	354.562E	354.596E	---	---	24
25	---	---	---	---	356.051	355.611	---	---	354.563E	354.601E	---	---	25
26	---	---	---	---	356.051	355.593E	---	---	354.565	354.606E	---	---	26
27	---	---	---	---	356.051	355.575E	---	---	354.565E	354.611	---	---	27
28	---	---	---	---	356.071E	355.557	---	---	354.564E	354.611	---	---	28
29	---		---	---	356.091	355.551	---	---	354.564	354.619E	---	---	29
30	---		---	---	356.041	355.509E	---	---	354.562E	354.628E	---	---	30
31	355.374		---		356.041		---	---		354.636E		---	31
MEAN	---	---	---	---	---	355.845	---	---	---	354.576	---	---	MEAN
MAX	---	---	---	---	---	356.151	---	---	---	354.636	---	---	MAX
MIN	---	---	---	---	---	355.509	---	---	---	354.542	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 356.161 ON MAY 17

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 11 N
LONG 099 02 08 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1968

DRAINAGE AREA,
60.9 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.13 B	0.172	0.158	0.142	0.014	0	0	---	---	1
2	---	---	0 B	1.99 B	0.167	1.57	0.097	0.013	0	0	---	---	2
3	---	---	0 B	1.97 B	0.164	1.21	0.084	0.008	0	0	---	---	3
4	---	---	0 B	1.56 B	0.154	1.12	0.072	0.006	0	0	---	---	4
5	---	---	0 B	1.13 B	0.127	1.54	0.089	0.001	0	0	---	---	5
6	---	---	0 B	0.982B	0.211	1.33	0.105	0	0	0	---	---	6
7	---	---	0 B	0.762B	0.151	1.15	0.229	0	0	0	---	---	7
8	---	---	0 B	0.495B	0.118	1.17	0.350	0	0	0	---	---	8
9	---	---	0 B	0.389B	0.102	1.12	0.274	0	0	0	---	---	9
10	---	---	0 B	0.378B	0.108	0.881	0.491	0	0	0	---	---	10
11	---	---	0.002B	0.327B	0.096	1.04	0.413	0	0	0	---	---	11
12	---	---	0.029B	0.285B	0.095	3.18	0.310	0	0	0	---	---	12
13	---	---	0.170B	0.352B	0.117	1.65	0.264	0	0	0	---	---	13
14	---	---	1.01 B	0.340B	0.123	1.57	0.222	0	0	0	---	---	14
15	---	---	1.32 B	0.312B	0.117	1.31	0.180	0	0	0	---	---	15
16	---	---	1.52 B	0.300B	0.156	1.06	0.140	0	0	0	---	---	16
17	---	---	1.19 B	0.254B	0.260	0.818	0.095	0	0	0	---	---	17
18	---	---	0.952B	0.282B	0.284	0.676	0.082	0	0.002	0	---	---	18
19	---	---	0.800B	0.371	0.238	0.587	0.074	0	0	0	---	---	19
20	---	---	0.686B	0.358	0.249	0.632	0.069	0	0	0	---	---	20
21	---	---	0.615B	0.311	0.259	0.582	0.072	0	0	0	---	---	21
22	---	---	0.531B	0.290	0.226	0.535	0.082	0	0	0	---	---	22
23	---	---	0.455B	0.266	0.188	0.658	0.078	0	0	0	---	---	23
24	---	---	0.360B	0.235	0.162	0.637	0.072	0	0	0	---	---	24
25	---	---	0.270B	0.234	0.153	0.519	0.060	0	0	0	---	---	25
26	---	---	0.240B	0.191	0.155	0.385	0.048	0	0	0	---	---	26
27	---	---	0.191B	0.187	0.159	0.312	0.042	0	0	0.004	---	---	27
28	---	---	0.250B	0.186	0.159	0.243	0.044	0	0	0.001	---	---	28
29	---	---	0.312B	0.182	0.152	0.200	0.039	0	0	0	---	---	29
30	---		1.80 B	0.179	0.156	0.176	0.029	0	0	0 E	---	---	30
31	---		3.68 B		0.149		0.019	0		0 E		---	31
TOTAL	---	---	16.383	17.228	5.147	28.019	4.367	0.042	0.002	0.005	---	---	TOTAL
MEAN	---	---	0.529	0.574	0.166	0.934	0.141	0.001	0	0	---	---	MEAN
MAX	---	---	3.68	2.13	0.284	3.18	0.491	0.014	0.002	0.004	---	---	MAX
MIN	---	---	0	0.179	0.095	0.158	0.019	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.291
MAXIMUM DAILY, 3.68B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.58 AT 01:26 CST ON MAR 31

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 26 N
LONG 096 59 23 W
DRAINAGE AREA, 329 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	377
FEB	---	AUG	3.63
MAR	1 420	SEP	0.173
APR	1 490	OCT	0.432
MAY	445	NOV	---
JUN	2 420	DEC	---

TOTAL DISCHARGE, 6 160 dam³

KENTON CREEK AT KENTON - STATION NO. 05MG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.855	0.003	0.002	0.001	0	0	0	---	---	1
2	---	---	0 B	0.743	0.003	0.002	0.001	0	0	0	---	---	2
3	---	---	0 B	1.03	0.003	0.002	0.001	0	0	0	---	---	3
4	---	---	0 B	0.686	0.003	0.001	0.001	0	0	0	---	---	4
5	---	---	0 B	0.126	0.003	0.002	0.001	0	0	0	---	---	5
6	---	---	0 B	0.084	0.003	0.001	0.001	0	0	0	---	---	6
7	---	---	0 B	0.095	0.003	0.001	0.001	0	0	0	---	---	7
8	---	---	0 B	0.044	0.003	0.001	0	0	0	0	---	---	8
9	---	---	0 B	0.085	0.003	0.001	0	0	0	0	---	---	9
10	---	---	0 B	0.079	0.002	0.001	0	0	0	0	---	---	10
11	---	---	0 B	0.050	0.002	0.001	0	0	0	0	---	---	11
12	---	---	0.200B	0.056	0.002	0.001	0	0	0	0	---	---	12
13	---	---	0.927B	0.054	0.002	0.001	0	0	0	0	---	---	13
14	---	---	0.534B	0.038	0.002	0.001	0	0	0	0	---	---	14
15	---	---	0.113B	0.016	0.002	0.001	0	0	0	0	---	---	15
16	---	---	0.080B	0.016	0.002	0.001	0	0	0	0	---	---	16
17	---	---	0.071B	0.011	0.004	0.001	0	0	0	0	---	---	17
18	---	---	0.061B	0.014	0.003	0.266	0	0	0	0	---	---	18
19	---	---	0.052B	0.015	0.002	3.35	0	0	0	0	---	---	19
20	---	---	0.042B	0.014	0.002	1.40	0	0	0	0	---	---	20
21	---	---	0.033B	0.012	0.002	0.548	0	0	0	0	---	---	21
22	---	---	0.024B	0.013	0.002	0.233	0	0	0	0	---	---	22
23	---	---	0.020B	0.017	0.002E	0.086	0	0	0	0	---	---	23
24	---	---	0.016B	0.015	0.001E	0.028	0	0	0	0	---	---	24
25	---	---	0.012B	0.011	0.001E	0.016	0	0	0	0	---	---	25
26	---	---	0.010B	0.008	0.001E	0.006	0	0	0	0	---	---	26
27	---	---	0.008B	0.004	0.001E	0.001	0	0	0	0	---	---	27
28	---	---	0.010B	0.003	0	0.001	0	0	0	0	---	---	28
29	---	---	0.020B	0.003	0	0.001	0	0	0	0	---	---	29
30	---		0.040B	0.003	0.001	0.001	0	0	0	0	---	---	30
31	---		0.067B		0.001		0	0		0		---	31
TOTAL	---	---	2.340	4.200	0.064	5.958	0.007	0	0	0	---	---	TOTAL
MEAN	---	---	0.076	0.140	0.002	0.199	0	0	0	0	---	---	MEAN
MAX	---	---	0.927	1.03	0.004	3.35	0.001	0	0	0	---	---	MAX
MIN	---	---	0	0.003	0	0.001	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.051
MAXIMUM DAILY, 3.35 ON JUN 19
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.93 AT 04:51 CST ON JUN 19

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 59 24 N
LONG 100 36 39 W
DRAINAGE AREA, 45.8 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0.605
FEB	---	AUG	0
MAR	202	SEP	0
APR	363	OCT	0
MAY	5.53	NOV	---
JUN	515	DEC	---

TOTAL DISCHARGE, 1 090 dam³

KENTON RESERVOIR NEAR KENTON - STATION NO. 05MG803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	441.098	441.070	440.997	440.877	440.762	---	---	1
2	---	---	---	---	---	441.099	441.068	440.994	440.874	440.757	---	---	2
3	---	---	---	---	---	441.090	441.092	440.995	440.867	440.753	---	---	3
4	---	---	---	440.985A	---	441.089	441.090	440.987	440.865	440.750	---	---	4
5	---	---	---	---	---	441.090	441.083	440.983	440.860	440.743	---	---	5
6	---	---	---	---	---	441.087	441.086	440.978	440.856	440.738	---	---	6
7	---	439.849A	---	---	---	441.087	441.088	440.971	440.850	440.733	---	---	7
8	---	---	---	---	---	441.108	441.090	440.963	440.845	440.728	---	---	8
9	---	---	---	---	---	441.106	441.086	440.955	440.840	440.727	---	---	9
10	---	---	---	---	441.062A	441.103	441.081	440.949	440.834	440.724	---	---	10
11	---	---	---	---	441.059	441.101	441.078	440.948	440.827	440.722	---	440.634A	11
12	---	---	---	---	441.056	441.098	441.076	440.948E	440.823	440.717	---	---	12
13	---	---	438.852A	---	441.054	441.093	441.070	440.948E	440.810	440.715	---	---	13
14	---	---	---	---	441.067	441.085	441.064	440.947E	440.807	440.714	---	---	14
15	---	---	---	---	441.114	441.080	441.056	440.947	440.803	440.713	---	---	15
16	---	---	---	---	441.123	441.076	441.049	440.947	440.796	440.707	---	---	16
17	---	---	---	---	441.123	441.077	441.045	440.938	440.788	440.704	---	---	17
18	---	---	---	---	441.122	441.094E	441.044	440.930	440.784	440.702	---	---	18
19	---	---	---	---	441.121	441.110	441.039	440.926	440.777	440.697	---	---	19
20	---	---	---	---	441.123	441.111	441.034	440.924	440.774	440.696	---	---	20
21	---	---	---	---	441.126	441.106	441.031	440.923	440.790	440.694	---	---	21
22	---	---	---	---	441.126	441.102	441.026	440.916	440.785	440.691	---	---	22
23	---	---	---	---	441.124	441.097	441.020	440.916	440.778	440.687	---	---	23
24	---	---	---	---	441.120	441.094	441.016	440.913	440.776	440.687A	---	---	24
25	---	---	---	---	441.117	441.091	441.012	440.907	440.775	---	---	---	25
26	---	---	---	---	441.113	441.087	441.013	440.907	440.773	---	---	---	26
27	---	---	---	---	441.110	441.083	441.022	440.906	440.765	---	---	---	27
28	---	---	---	---	441.106	441.079	441.019	440.903	440.763	---	---	---	28
29	---		---	---	441.102	441.075	441.013	440.897	440.767	---	---	---	29
30	---		---	---	441.099	441.068	441.007	440.893	440.767	---	---	---	30
31	---		---		441.097		441.000	440.886		---		---	31
MEAN	---	---	---	---	---	441.092	441.051	440.940	440.810	---	---	---	MEAN
MAX	---	---	---	---	---	441.111	441.092	440.997	440.877	---	---	---	MAX
MIN	---	---	---	---	---	441.068	441.000	440.886	440.763	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 441.126 ON MAY 21

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 58 34 N
LONG 100 36 04 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1969

DRAINAGE AREA,
119 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.77B	1.46 B	0.660B	0.257B	1.04 B	36.6	17.6	4.95A	5.59	6.40	5.35B	4.15B	1
2	1.77B	1.43 B	0.620B	0.250B	0.990B	35.7	19.9	4.67E	6.82	5.87	5.27B	4.07B	2
3	1.76B	1.39 B	0.600B	0.245B	0.930B	34.8	19.7	4.40E	7.69	5.80	5.25B	4.00B	3
4	1.76B	1.36 B	0.580B	0.240B	0.900B	33.3	19.6	4.15A	7.66	6.22	5.22B	3.96B	4
5	1.75B	1.35 B	0.560B	0.237B	0.930B	33.0	18.4	4.10	7.48	5.32	5.20B	3.90B	5
6	1.75B	1.32 B	0.540B	0.235B	1.28 B	31.7	17.7	4.02	7.39	4.84	5.17B	3.84B	6
7	1.74B	1.29 B	0.520B	0.233B	1.86 B	29.9	17.0	3.84	7.21	5.51	5.13B	3.80B	7
8	1.74B	1.26 B	0.510B	0.230B	2.20 B	29.5	16.0	3.74	7.39	6.12	5.10B	3.76B	8
9	1.73B	1.23 B	0.500B	0.228B	2.36 B	27.8	15.2	3.26	6.34	6.26	5.08B	3.70B	9
10	1.73B	1.20 B	0.490B	0.226B	2.48 B	26.3	14.2	2.84	6.40	6.39	5.05B	3.66B	10
11	1.72B	1.17 B	0.480B	0.224B	2.56 B	25.7	13.9	2.80	6.82	7.07	5.02B	3.62B	11
12	1.72B	1.14 B	0.460B	0.222B	2.64 B	27.9	13.3	2.68	6.43	7.33	5.00B	3.58B	12
13	1.71B	1.11 B	0.440B	0.220B	2.78 B	28.9	12.4	2.84	6.28	7.66	4.98B	3.54B	13
14	1.70B	1.08 B	0.420B	0.218B	2.94 B	29.8	11.8	3.10	6.40	7.79	4.95B	3.48B	14
15	1.69B	1.05 B	0.410B	0.218B	3.40 B	30.1	10.6	2.62	7.45	7.76	4.93B	3.42B	15
16	1.69B	1.02 B	0.400B	0.223B	4.10 B	30.2	9.77	2.46	7.39	7.67	4.90B	3.38B	16
17	1.68B	0.990B	0.385B	0.230B	5.80 B	29.7	9.48	2.50	7.63	7.53	4.87B	3.34B	17
18	1.67B	0.960B	0.370B	0.235B	11.7 B	29.0	9.05	2.32	8.02	8.06	4.84B	3.28B	18
19	1.66B	0.930B	0.355B	0.240B	20.0 B	29.1	8.55	2.36	7.36	7.33	4.80B	3.24B	19
20	1.65B	0.900B	0.347B	0.250B	30.1 B	27.7	8.20	2.34	6.70	7.03	4.77B	3.20B	20
21	1.64B	0.880B	0.340B	0.280B	33.4	27.2	7.87	2.20	6.85	6.96	4.75B	3.16B	21
22	1.62B	0.850B	0.332B	0.325B	35.9	25.7	7.78	2.00	6.64	6.84	4.70B	3.12B	22
23	1.60B	0.830B	0.325B	0.440B	37.7	24.7	7.48	2.20	6.37	6.77	4.65B	3.08B	23
24	1.59B	0.800B	0.317B	0.560B	39.1	23.9	7.18	2.44	6.31	6.52	4.60B	3.04B	24
25	1.58B	0.780B	0.310B	0.740B	40.1	23.0	6.85	2.42	6.37	6.97	4.52B	3.00B	25
26	1.55B	0.750B	0.302B	0.900B	40.7	22.1	6.43	2.38	6.34	6.89	4.48B	2.96B	26
27	1.53B	0.720B	0.295B	1.06 B	40.6	21.0	6.01	2.24	6.13	6.31	4.43B	2.92B	27
28	1.51B	0.690B	0.288B	1.12 B	40.1	19.9	5.68	2.26	5.68	6.11	4.35B	2.86B	28
29	1.50B		0.281B	1.09 B	39.6	18.6	5.45	2.24	5.74	6.56	4.27B	2.80B	29
30	1.49B		0.273B	1.08 B	38.9	17.8	4.40	2.08	6.16	5.95	4.22B	2.76B	30
31	1.47B		0.265B		37.8		4.52	2.86		5.47		2.72B	31
TOTAL	51.47	29.940	12.975	12.256	524.890	829.6	352.00	91.31	203.04	204.11	145.85	105.34	TOTAL
MEAN	1.66	1.07	0.419	0.409	16.9	27.7	11.4	2.95	6.77	6.58	4.86	3.40	MEAN
MAX	1.77	1.46	0.660	1.12	40.7	36.6	19.9	4.95	8.02	7.79	5.35	4.15	MAX
MIN	1.47	0.690	0.265	0.218	0.900	17.8	4.40	2.00	5.59	4.84	4.22	2.72	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.02
MAXIMUM DAILY, 40.7 ON MAY 26
MINIMUM DAILY, 0.218B ON APR 14
MAXIMUM INSTANTANEOUS,
40.9 AT 10:40 CST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 20 40 N
LONG 094 41 00 W
DRAINAGE AREA, 1 090 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	4 450	JUL	30 400
FEB	2 590	AUG	7 890
MAR	1 120	SEP	17 500
APR	1 060	OCT	17 600
MAY	45 400	NOV	12 600
JUN	71 700	DEC	9 100

TOTAL DISCHARGE, 221 000 dam³

KILLARNEY LAKE AT KILLARNEY - STATION NO. 05QA803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	491.790	491.769E	491.751E	491.858	491.936	491.920E	492.025	491.917	491.823E	491.711E	491.621E	491.574E	1
2	491.790E	491.769E	491.750E	491.878E	491.933E	491.928E	492.028E	491.907E	491.819	491.707E	491.618E	491.573E	2
3	491.790E	491.769E	491.749E	491.898E	491.931E	491.935	492.032E	491.897E	491.809E	491.704	491.616E	491.572E	3
4	491.790	491.769	491.748	491.918	491.928E	491.935E	492.035	491.887E	491.800E	491.699E	491.613	491.571E	4
5	491.790E	491.769E	491.748E	491.918E	491.926E	491.935E	492.033E	491.877	491.790	491.694E	491.613E	491.571E	5
6	491.790E	491.769E	491.748E	491.918E	491.923E	491.935	492.030E	491.873E	491.785E	491.689E	491.613E	491.570E	6
7	491.790	491.769	491.748	491.918E	491.920E	491.955E	492.027E	491.869E	491.780E	491.684	491.613	491.569E	7
8	491.790E	491.767E	491.751E	491.918	491.918E	491.975E	492.025	491.865E	491.775E	491.681E	491.611E	491.568E	8
9	491.790E	491.764E	491.753E	491.918E	491.915	491.995E	492.015	491.860E	491.770	491.677E	491.608E	491.567E	9
10	491.790	491.762E	491.756E	491.918E	491.910E	492.015	492.015E	491.856E	491.770E	491.674	491.605E	491.566	10
11	491.788E	491.759	491.758	491.918	491.905E	492.015E	492.015	491.852E	491.770E	491.669E	491.603	491.571E	11
12	491.785E	491.759E	491.760E	491.918E	491.900E	492.015E	492.005E	491.848	491.770	491.664E	491.600E	491.575	12
13	491.783E	491.758E	491.778E	491.918E	491.895	492.015	491.996E	491.845E	491.763E	491.659E	491.596E	491.575E	13
14	491.780	491.758	491.788	491.918E	491.900E	492.015E	491.986E	491.841E	491.757E	491.654	491.593	491.575E	14
15	491.780E	491.758E	491.796E	491.918	491.905E	492.015E	491.976	491.838	491.750E	491.651E	491.591E	491.575E	15
16	491.779E	491.758E	491.803E	491.912E	491.910E	492.015E	491.969E	491.836E	491.744	491.647E	491.588E	491.575	16
17	491.779	491.758E	491.811E	491.907E	491.915	492.015	491.963E	491.833E	491.744E	491.644	491.586E	491.575E	17
18	491.777E	491.758	491.818	491.901	491.918E	492.015E	491.956	491.831E	491.744E	491.644E	491.583	491.574E	18
19	491.774E	491.758E	491.821E	491.901E	491.922E	492.015E	491.951E	491.828	491.744	491.644E	491.586E	491.574	19
20	491.772E	491.758E	491.825E	491.901E	491.925	492.015	491.946E	491.830E	491.742E	491.644E	491.589E	491.574E	20
21	491.769	491.758	491.828	491.901E	491.925E	492.018E	491.941E	491.831E	491.739E	491.644	491.592	491.574E	21
22	491.769E	491.757E	491.828E	491.901	491.925E	492.020E	491.936	491.833E	491.737E	491.640E	491.583	491.575E	22
23	491.769E	491.756E	491.828E	491.902E	491.925	492.023E	491.929E	491.834E	491.734	491.635E	491.582E	491.575	23
24	491.769	491.755E	491.828E	491.902E	491.923E	492.025	491.923E	491.836E	491.731E	491.631	491.581E	491.575E	24
25	491.769E	491.754E	491.828	491.903	491.920E	492.025E	491.916	491.838E	491.727E	491.629E	491.580E	491.575E	25
26	491.769E	491.753	491.828E	491.904E	491.918E	492.025E	491.921E	491.839	491.724	491.627E	491.579E	491.575	26
27	491.769E	491.753E	491.828E	491.904E	491.915	492.025	491.927E	491.839E	491.722E	491.625E	491.578E	491.575E	27
28	491.769	491.752	491.828	491.905	491.912E	492.025E	491.932E	491.839	491.719E	491.623	491.577E	491.575E	28
29	491.769E		491.836E	491.905	491.908E	492.025E	491.937	491.835E	491.717E	491.623E	491.576E	491.575E	29
30	491.769E		491.843E	491.921E	491.905	492.025E	491.930E	491.831E	491.714	491.623E	491.575E	491.575	30
31	491.769		491.851E		491.913E		491.924E	491.827E		491.623		491.575E	31
MEAN	491.779	491.761	491.794	491.907	491.917	491.997	491.976	491.851	491.757	491.657	491.595	491.573	MEAN
MAX	491.790	491.769	491.851	491.921	491.936	492.025	492.035	491.917	491.823	491.711	491.621	491.575	MAX
MIN	491.769	491.752	491.748	491.858	491.895	491.920	491.916	491.827	491.714	491.623	491.575	491.566	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 491.797
MAXIMUM DAILY, 492.035 ON JUL 04
MINIMUM DAILY, 491.566 ON DEC 10

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 10 30 N
LONG 099 40 12 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1956
DRAINAGE AREA, 234 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KISKITTO LAKE NEAR NORWAY HOUSE - STATION NO. 05UB013

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	212.722	212.747	212.736	212.756	212.825	213.017	213.045	212.946	212.804	212.782	212.751	212.803	1
2	212.722	212.744	212.733	212.752	212.833	213.016	213.029	212.948	212.807	212.715	212.769	212.798	2
3	212.721	212.740	212.733	212.748	212.832	213.031	212.991	212.939	212.810	212.806	212.778	212.805	3
4	212.721	212.735	212.738	212.743	212.834	213.038	212.994	212.939	212.814	212.798	212.769	212.804	4
5	212.722	212.735	212.737	212.740	212.842	213.024	213.009	212.931	212.830	212.790	212.774	212.801	5
6	212.724	212.737	212.737	212.743	212.850	213.036	213.007	212.932	212.807	212.788	212.777	212.804	6
7	212.731	212.738	212.737	212.744	212.859	213.045	213.001	212.922	212.825	212.788	212.768	212.813	7
8	212.724	212.742	212.740	212.741	212.865	213.038	213.007	212.914	212.800	212.789	212.774	212.815	8
9	212.721	212.741	212.738	212.746	212.881	213.034	213.009	212.873	212.804	212.782	212.778	212.807	9
10	212.721	212.738	212.729	212.749	212.891	213.034	213.006	212.888	212.799	212.782	212.781	212.797	10
11	212.725	212.740	212.725	212.752	212.901	213.035	213.005	212.881	212.775	212.812	212.777	212.807	11
12	212.736	212.751	212.723	212.754	212.910	213.050	213.015	212.882	212.764	212.780	212.781	212.796	12
13	212.723	212.755	212.727	212.752	212.924	213.032	213.020	212.898	212.766	212.762	212.782	212.797	13
14	212.719	212.748	212.726	212.754	212.933	213.045	213.014	212.892	212.783	212.770	212.783	212.797	14
15	212.726	212.742	212.726	212.760	212.938	213.061	213.003	212.874	212.781	212.776	212.773	212.804	15
16	212.726	212.738	212.747	212.759	212.942	213.060	212.995	212.866	212.786	212.785	212.770	212.804	16
17	212.728	212.738	212.752	212.758	212.946	213.052	212.987	212.858	212.789	212.775	212.775	212.804	17
18	212.727	212.739	212.753	212.760	212.955	213.058	212.993	212.858	212.809	212.764	212.781	212.809	18
19	212.728	212.737	212.757	212.766	212.962	213.062	212.991	212.858	212.786	212.749	212.777	212.812	19
20	212.728	212.740	212.755	212.767	212.966	213.050	212.984	212.849	212.760	212.768	212.773	212.811	20
21	212.736	212.740	212.760	212.760	212.980	213.037	212.978	212.843	212.759	212.765	212.784	212.800	21
22	212.740	212.738	212.754	212.759	212.989	213.031	212.978	212.852	212.770	212.747	212.801	212.801	22
23	212.732	212.736	212.750	212.757	212.998	213.037	212.978	212.855	212.783	212.755	212.801	212.798	23
24	212.733	212.744	212.750	212.767	213.007	213.035	212.982	212.853	212.783	212.763	212.800	212.808	24
25	212.733	212.745	212.750	212.769	213.016	213.016	212.970	212.848	212.788	212.767	212.807	212.803	25
26	212.732	212.739	212.746	212.774	213.023	213.026	212.963	212.842	212.809	212.766	212.808	212.804	26
27	212.741	212.734	212.749	212.786	213.013	213.019	212.959	212.845	212.802	212.779	212.805	212.805	27
28	212.740	212.733	212.752	212.795	213.018	213.011	212.964	212.851	212.783	212.774	212.796	212.821	28
29	212.738		212.751	212.806	213.028	213.026	212.956	212.855	212.783	212.792	212.800	212.823	29
30	212.737		212.750	212.817	213.031	213.037	212.970	212.848	212.787	212.771	212.797	212.803	30
31	212.742		212.754		213.037		212.951	212.834		212.736		212.812	31
MEAN	212.729	212.741	212.742	212.761	212.936	213.036	212.992	212.880	212.792	212.773	212.783	212.805	MEAN
MAX	212.742	212.755	212.760	212.817	213.037	213.062	213.045	212.948	212.830	212.812	212.808	212.823	MAX
MIN	212.719	212.733	212.723	212.740	212.825	213.011	212.951	212.834	212.759	212.715	212.751	212.796	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 212.832
MAXIMUM DAILY, 213.062 ON JUN 19
MINIMUM DAILY, 212.715 ON OCT 02
MAXIMUM INSTANTANEOUS,
213.101 AT 17:11 CST ON JUL 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 18 10 N
LONG 098 26 20 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1973
DRAINAGE AREA, 935 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

KISKITTOGISU LAKE AT WHISKEY JACK LANDING - STATION NO. 05UB017

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	216.681	217.206	217.490	217.599	217.408	217.146	216.745	---	1
2	---	---	---	---	216.722	217.004	217.408	217.625	217.504	217.071	216.696	---	2
3	---	---	---	---	216.741	216.964	217.324	217.527	217.557	217.125	216.612	---	3
4	---	---	---	---	216.733	217.078	217.293	217.431	217.480	216.979	216.550	---	4
5	---	---	---	---	216.751	217.164	217.364	217.509	217.497	216.756	216.599	---	5
6	---	---	---	---	216.778	217.199	217.447	217.595	217.407	216.699	216.584	---	6
7	---	---	---	---	216.782	217.230	217.478	217.660	217.470	216.706	216.502	---	7
8	---	---	---	---	216.784	217.255	217.461	217.587	217.384	216.761	216.488	---	8
9	---	---	---	---	216.795	217.252	217.396	217.403	217.339	216.858	216.484	---	9
10	---	---	---	---	216.823	217.300	217.421	217.442	217.368	216.993	216.454	---	10
11	215.586A	---	---	216.301A	216.853	217.373	217.465	217.505	217.357	217.078	216.392	---	11
12	---	---	---	216.307	216.880	217.403	217.525	217.580	217.326	216.982	216.322A	---	12
13	---	---	---	216.322	216.908	217.248	217.601	217.626	217.318	216.999	216.249	---	13
14	---	---	---	216.335	216.960	217.178	217.612	217.446	217.314	217.003	216.257	---	14
15	---	---	---	216.348	217.060	217.297	217.571	217.435	217.165	216.960	216.266	---	15
16	---	---	---	216.359	217.065	217.390	217.542	217.449	217.200	216.903	216.272	---	16
17	---	---	---	216.368	216.997	217.380	217.527	217.407	217.367	216.869	216.285	---	17
18	---	---	---	216.376	217.023	217.375	217.472	217.430	217.394	216.900	216.304	---	18
19	---	---	---	216.391	217.099	217.403	217.453	217.508	217.209	216.950	216.314	---	19
20	---	---	---	216.397	217.147	217.347	217.426	217.560	217.158	216.973	216.327	---	20
21	---	---	---	216.406	217.176	217.284	217.425	217.584	217.072	216.948	216.342	---	21
22	---	---	---	216.407	217.197A	217.242	217.483	217.620	216.995	216.930	216.368	---	22
23	---	---	---	216.430	217.191A	217.320	217.549	217.675	217.049	216.951	216.358	---	23
24	---	---	---	216.465	217.203	217.390	217.575	217.571	217.121	216.959	---	---	24
25	---	---	---	216.493	217.210	217.351	217.476	217.413	217.132	217.015	---	---	25
26	---	---	---	216.527	217.216	217.329	217.506	217.372	217.103	217.036	---	---	26
27	---	---	---	216.545	217.173	217.387	217.618	217.432	216.962	216.788	---	---	27
28	---	---	---	216.566	217.152	217.364	217.653	217.471	216.933	216.717	---	---	28
29	---		---	216.604	217.195	217.356	217.396	217.501	217.026	216.814	---	---	29
30	---		---	216.638	217.244	217.419	217.417	217.527	217.138	216.817	---	---	30
31	---		---		217.281		217.519	217.545		216.803		---	31
MEAN	---	---	---	---	216.994	217.283	217.480	217.517	217.259	216.919	---	---	MEAN
MAX	---	---	---	---	217.281	217.419	217.653	217.675	217.557	217.146	---	---	MAX
MIN	---	---	---	---	216.681	216.964	217.293	217.372	216.933	216.699	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 217.675 ON AUG 23

MAXIMUM INSTANTANEOUS,
217.715 AT 12:54 CST ON JUL 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 26 20 N
LONG 098 00 20 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1973

KISSISSING LAKE AT COLD LAKE - STATION NO. 06EA009

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	313.339	313.333	313.324	313.310	313.337	313.467	313.486	313.389	313.275	313.183	313.159	313.184	1
2	313.340	313.331	313.326	313.307	313.337	313.466	313.477	313.399	313.272	313.152	313.179	313.181	2
3	313.339	313.331	313.323	313.311	313.341	313.469	313.460	313.392	313.279	313.196	313.184	313.180	3
4	313.338	313.333	313.321	313.310	313.348	313.465	313.469	313.376	313.277	313.200	313.173	313.178	4
5	313.338	313.333	313.318	313.310	313.351	313.468	313.472	313.374	313.271	313.197	313.178	313.185	5
6	313.337	313.334	313.318	313.305	313.356	313.473	313.466	313.370	313.258	313.191	313.184	313.181	6
7	313.341	313.331	313.317	313.307	313.363	313.468	313.467	313.374	313.260	313.181	313.171	313.180	7
8	313.339	313.331	313.315	313.306	313.371	313.470	313.471	313.371	313.258	313.175	313.172	313.181	8
9	313.339	313.336	313.322	313.304	313.378	313.466	313.469	313.351	313.240	313.169	313.179	313.182	9
10	313.341	313.333	313.328	313.301	313.387	313.463	313.466	313.347	313.236	313.171	313.177	313.179	10
11	313.341	313.332	313.326	313.301	313.392	313.471	313.464	313.344	313.235	313.200	313.175	313.178	11
12	313.338	313.337	313.328	313.298	313.399	313.480	313.463	313.341	313.217	313.173	313.172	313.178	12
13	313.338	313.336	313.329	313.297	313.404	313.480	313.457	313.351	313.225	313.174	313.164	313.178	13
14	313.344	313.334	313.324	313.299	313.409	313.482	313.466	313.341	313.230	313.181	313.168	313.179	14
15	313.341	313.333	313.327	313.297	313.416	313.485	313.460	313.324	313.225	313.191	313.166	313.179	15
16	313.342	313.332	313.327	313.294	313.418	313.478	313.446	313.319	313.215	313.186	313.165	313.184	16
17	313.336	313.331	313.325	313.295	313.417	313.472	313.438	313.311	313.219	313.177	313.167	313.180	17
18	313.333	313.334	313.321	313.292	313.422	313.478	313.440	313.297	313.232	313.163	313.165	313.181	18
19	313.338	313.332	313.321	313.296	313.426	313.477	313.437	313.298	313.213	313.157	313.161	313.180	19
20	313.329	313.331	313.324	313.290	313.429	313.477	313.429	313.298	313.206	313.168	313.163	313.178	20
21	313.338	313.333	313.321	313.291	313.434	313.474	313.426	313.297	313.209	313.164	313.166	313.178	21
22	313.337	313.331	313.321	313.288	313.445	313.466	313.423	313.290	313.208	313.157	313.178	313.176	22
23	313.335	313.330	313.320	313.295	313.446	313.466	313.421	313.300	313.208	313.165	313.182	313.182	23
24	313.340	313.330	313.317	313.295	313.446	313.468	313.420	313.301	313.207	313.164	313.183	313.179	24
25	313.336	313.326	313.316	313.296	313.452	313.464	313.411	313.288	313.207	313.167	313.181	313.179	25
26	313.339	313.329	313.312	313.307	313.458	313.463	313.404	313.279	313.213	313.177	313.177	313.176	26
27	313.340	313.328	313.313	313.316	313.452	313.451	313.401	313.281	313.195	313.184	313.177	313.175	27
28	313.335	313.326	313.313	313.320	313.451	313.464	313.423	313.277	313.188	313.155	313.181	313.181	28
29	313.339		313.311	313.333	313.456	313.470	313.408	313.276	313.179	313.180	313.178	313.177	29
30	313.335		313.314	313.337	313.462	313.477	313.407	313.264	313.184	313.158	313.183	313.173	30
31	313.334		313.314		313.465		313.392	313.278		313.159		313.175	31
MEAN	313.338	313.332	313.321	313.304	313.409	313.471	313.443	313.326	313.228	313.175	313.174	313.179	MEAN
MAX	313.344	313.337	313.329	313.337	313.465	313.485	313.486	313.399	313.279	313.200	313.184	313.185	MAX
MIN	313.329	313.326	313.311	313.288	313.337	313.451	313.392	313.264	313.179	313.152	313.159	313.173	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 313.308
MAXIMUM DAILY, 313.486 ON JUL 01
MINIMUM DAILY, 313.152 ON OCT 02
MAXIMUM INSTANTANEOUS,
313.519 AT 15:36 CST ON JUL 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 07 50 N
LONG 101 06 50 W

A - MANUAL GAUGE

E - ESTIMATED

DRAINAGE AREA,
2 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1956 ADJ.)

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05OC024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0 B	0.445B	0.009E	0	---	---	---	---	---	---
2	---	---	0 B	0.900B	0.007E	0.059	---	---	---	---	---	---
3	---	---	0 B	0.884B	0.014E	0.606A	---	---	---	---	---	---
4	---	---	0 B	0.594B	0.011E	0.311A	---	---	---	---	---	---
5	---	---	0 B	0.201B	0.008E	0.146	---	---	---	---	---	---
6	---	---	0 B	0.230B	0.004E	0.085	---	---	---	---	---	---
7	---	---	0 B	0.381B	0.001A	0.036	---	---	---	---	---	---
8	---	---	0 B	0.300B	0.028	0.100	---	---	---	---	---	---
9	---	---	0 B	0.252B	0.020	0.147	---	---	---	---	---	---
10	---	---	0 B	0.198B	0.015	0.126	---	---	---	---	---	---
11	---	---	0 B	0.120B	0.010	0.100	---	---	---	---	---	---
12	---	---	0 B	0.065B	0.004	0.845	---	---	---	---	---	---
13	---	---	0 B	0.059B	0.002	1.41	---	---	---	---	---	---
14	---	---	0 B	0.055B	0.001	0.834	---	---	---	---	---	---
15	---	---	0 B	0.052B	0.001	0.213	---	---	---	---	---	---
16	---	---	0 B	0.041B	0.002	0.132	---	---	---	---	---	---
17	---	---	0 B	0.031B	0.007	0.086	---	---	---	---	---	---
18	---	---	0 B	0.026B	0.004	0.053	---	---	---	---	---	---
19	---	---	0 B	0.025	0.002	0.030	---	---	---	---	---	---
20	---	---	0 B	0.023A	0.001	0.029	---	---	---	---	---	---
21	---	---	0 B	0.022E	0	0.016	---	---	---	---	---	---
22	---	---	0 B	0.020E	0	0.029	---	---	---	---	---	---
23	---	---	0 B	0.019E	0	0.016	---	---	---	---	---	---
24	---	---	0 B	0.018E	0	0.001	---	---	---	---	---	---
25	---	---	0 B	0.017E	0	0.001	---	---	---	---	---	---
26	---	---	0 B	0.015E	0	0.001	---	---	---	---	---	---
27	---	---	0 B	0.014E	0	0	---	---	---	---	---	---
28	---	---	0 B	0.013E	0	0	---	---	---	---	---	---
29	---	---	0 B	0.011E	0	0	---	---	---	---	---	---
30	---		0.005B	0.010E	0	0	---	---	---	---	---	---
31	---		0.019B		0		---			---		
TOTAL	---	---	0.024	5.041	0.151	5.412	---	---	---	---	---	---
MEAN	---	---	0.001	0.168	0.005	0.180	---	---	---	---	---	---
MAX	---	---	0.019	0.900	0.028	1.41	---	---	---	---	---	---
MIN	---	---	0	0.010	0	0	---	---	---	---	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.087
MAXIMUM DAILY, 1.41 ON JUN 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.62 AT 13:00 CST ON JUN 13

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 16 50 N
LONG 097 30 20 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	2.07	SEP	---
APR	436	OCT	---
MAY	13.0	NOV	---
JUN	468	DEC	---

TOTAL DISCHARGE, 919 dam³

LA SALLE RIVER ABOVE HAMPSON DAM - STATION NO. 05OG801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	233.268	---	233.324A	---
2	---	---	---	---	---	---	---	---	233.267	---	---	---
3	---	---	---	---	---	---	---	---	233.267	---	---	---
4	---	---	---	---	---	---	---	---	233.269	---	---	---
5	---	---	---	---	---	---	---	---	233.267	---	---	---
6	---	---	---	---	---	---	---	---	233.265	---	---	---
7	---	---	---	---	---	---	---	---	233.262	---	---	---
8	---	---	---	---	---	---	---	---	233.261	---	---	---
9	---	---	---	---	---	---	---	---	233.260	---	---	---
10	---	---	---	---	---	---	---	---	233.259A	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	233.265A	---	---	---	---
17	---	---	---	---	---	---	---	233.263E	---	---	---	---
18	---	---	---	---	---	---	---	233.262E	---	---	---	---
19	---	---	---	---	---	---	---	233.260E	---	---	---	---
20	---	---	---	---	---	---	---		---	---	---	---
21	---	---	---	---	---	---	---	233.259E	---	---	---	---
22	---	---	---	---	---	---	---	233.257	---	---	---	---
23	---	---	---	---	---	---	---	233.263	---	---	---	---
24	---	---	---	---	---	---	---	233.262	---	---	---	---
25	---	---	---	---	---	---	---		---	---	---	---
26	---	---	---	---	---	---	---	233.262	---	---	---	---
27	---	---	---	---	---	---	---	233.261	---	---	---	---
28	---	---	---	---	---	---	---	233.262	---	---	---	---
29	---		---	---	---	---	---	233.265	---	---	---	---
30	---		---	---	---	---	---	233.267	---	---	---	---
31	---		---		---		---	233.267		---		
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 43 16 N
LONG 097 31 22 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 19
DRAINAGE AREA,
1 790 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE HOGUE DAM - STATION NO. 05OG802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	229.558	229.580E	229.531E	229.495E	---	229.537E	---	1
2	---	---	---	---	---	229.636E	229.578	229.525E	229.496E	---	229.530	---	2
3	---	---	---	---	---	229.713	229.576E	229.518	229.498	---	229.530E	---	3
4	---	---	---	---	---	229.671E	229.573E	229.515E	229.506E	---	229.530E	---	4
5	---	---	---	---	---	229.628	229.570E	229.512E	229.514E	---	229.530	---	5
6	---	---	---	---	---	229.637E	229.568	229.509E	229.521E	229.544	229.530E	---	6
7	---	---	---	---	---	229.646E	229.568E	229.506E	229.529	229.544E	229.530E	---	7
8	---	---	---	---	---	229.654E	229.568E	229.503E	229.524E	229.544	229.530E	---	8
9	---	---	---	---	---	229.663	229.568	229.500E	229.519E	229.536E	229.530	---	9
10	---	---	---	---	---	229.646E	229.566E	229.497E	229.514	229.527E	---	---	10
11	---	---	---	---	---	229.628	229.565E	229.494E	229.509E	229.519E	---	---	11
12	---	---	---	---	---	229.626E	229.563	229.491E	229.504E	229.510	---	---	12
13	---	---	---	---	---	229.623	229.563E	229.488	229.499E	229.517E	---	---	13
14	---	---	---	---	---	229.618E	229.563E	229.485E	229.494	229.523E	---	---	14
15	---	---	---	---	---	229.613	229.563E	229.481E	229.490E	229.530	---	---	15
16	---	---	---	---	---	229.622E	229.563	229.478	229.486E	229.530E	---	---	16
17	---	---	---	---	---	229.631E	229.561E	229.486	229.482E	229.530E	---	---	17
18	---	---	---	---	---	229.639E	229.560E	229.483E	229.477E	229.530E	---	---	18
19	---	---	---	---	---	229.648	229.558	229.481E	229.473E	229.530	---	---	19
20	---	---	---	---	---	229.656E	229.558E	229.478	229.469	229.530E	---	---	20
21	---	---	---	---	---	229.665E	229.558E	229.480E	---	229.530E	---	---	21
22	---	---	---	---	---	229.673	229.556E	229.481E	---	229.530	---	---	22
23	---	---	---	---	229.576	229.664E	229.556	229.483	---	229.540E	---	---	23
24	---	---	---	---	229.572E	229.656E	229.553E	229.483E	---	229.550E	---	---	24
25	---	---	---	---	229.568	229.647E	229.548E	229.483E	---	229.560E	---	---	25
26	---	---	---	---	229.566E	229.638	229.543	229.483E	---	229.570	---	---	26
27	---	---	---	---	229.565E	229.620E	229.542E	229.483	---	229.570E	---	---	27
28	---	---	---	---	229.563	229.601E	229.540E	229.486E	---	229.570E	---	---	28
29	---		---	---	229.562E	229.583	229.539E	229.488E	---	229.570	---	---	29
30	---		---	---	229.561E	229.581E	229.538	229.491E	---	229.552	---	---	30
31	---		---		229.559E		229.538	229.493		229.545E		---	31
MEAN	---	---	---	---	---	229.636	229.560	229.493	---	---	---	---	MEAN
MAX	---	---	---	---	---	229.713	229.580	229.531	---	---	---	---	MAX
MIN	---	---	---	---	---	229.558	229.538	229.478	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 229.713 ON JUN 03

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 41 02 N
LONG 097 20 57 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1953
DRAINAGE AREA,
2 170 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE LA SALLE DAM (P.R. 330) - STATION NO. 05OG808

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	228.044E	228.130E	228.022E	228.000	227.853	228.018	228.072E	---	1
2	---	---	---	---	228.030	228.182	228.022E	227.999E	227.861E	228.026E	228.071E	---	2
3	---	---	---	---	228.033E	228.371	228.021	227.998E	227.868	228.034E	228.070	---	3
4	---	---	---	---	228.036E	228.210	228.022E	227.997	227.882E	228.042	228.074E	---	4
5	---	---	---	---	228.039	228.143E	228.023E	227.997E	227.896	228.056E	228.079	---	5
6	---	---	---	---	228.039E	228.076	228.024	227.997	227.915E	228.070E	228.073E	---	6
7	---	---	---	---	228.039	228.055E	228.023E	227.984E	227.935E	228.083E	228.067	---	7
8	---	---	---	---	228.042E	228.035E	228.022E	227.972	227.954	228.097	228.074E	---	8
9	---	---	---	---	228.045	228.015	228.022E	227.962E	227.961E	228.080E	228.081E	---	9
10	---	---	---	---	228.037E	228.045E	228.021	227.952E	227.969	228.062E	228.088	---	10
11	---	---	---	---	228.029E	228.076	228.018E	227.942	227.975E	228.044E	228.080E	---	11
12	---	---	---	---	228.021	228.071E	228.015	227.937E	227.981E	228.027	228.073	---	12
13	---	---	---	---	228.018E	228.067	228.012E	227.932	227.987	228.025E	228.073E	---	13
14	---	---	---	---	228.015	228.067E	228.009	227.932E	227.984E	228.023E	228.073	---	14
15	---	---	---	---	228.010E	228.067E	228.007E	227.932	227.981	228.021	228.070E	---	15
16	---	---	---	---	228.021	228.067	228.006	227.949E	227.974E	228.024E	228.067E	---	16
17	---	---	---	---	228.023E	228.059E	228.010E	227.965E	227.966	228.027E	228.064	---	17
18	---	---	---	---	228.025E	228.051	228.015	227.981	227.977E	228.030	228.064E	---	18
19	---	---	---	---	228.027	228.056E	228.014E	227.943E	227.988E	228.045E	228.064	---	19
20	---	---	---	---	228.033E	228.061	228.013E	227.905	228.000	228.061	228.068E	---	20
21	---	---	---	---	228.039	228.089E	228.012	227.894E	228.009E	228.056E	228.073	---	21
22	---	---	---	---	228.039E	228.117E	228.012E	227.884	228.018	228.051	228.071E	---	22
23	---	---	---	228.149	228.039	228.146	228.012E	227.876E	228.021E	228.074E	228.069E	---	23
24	---	---	---	228.131E	228.035E	228.118E	228.012E	227.868	228.024	228.097	228.067	---	24
25	---	---	---	228.112E	228.031E	228.091	228.012	227.864E	228.023E	228.091E	---	---	25
26	---	---	---	228.094	228.027	228.074E	228.007E	227.860E	228.022E	228.085E	---	---	26
27	---	---	---	228.085E	228.030E	228.057	228.002E	227.856	228.021	228.079	---	---	27
28	---	---	---	228.076	228.033	228.041E	227.997	227.849E	228.019E	228.074E	---	---	28
29	---		---	228.067E	228.029E	228.024	227.997E	227.841	228.018	228.070	---	---	29
30	---		---	228.057	228.024	228.023E	227.997	227.845E	228.018E	228.061	---	---	30
31	---		---		228.077E		227.998E	227.849E		228.073		---	31
MEAN	---	---	---	---	228.033	228.089	228.013	227.928	227.970	228.055	---	---	MEAN
MAX	---	---	---	---	228.077	228.371	228.024	228.000	228.024	228.097	---	---	MAX
MIN	---	---	---	---	228.015	228.015	227.997	227.841	227.853	228.018	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 228.371 ON JUN 03
MINIMUM DAILY, 227.841 ON AUG 29

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 41 43 N
LONG 097 15 52 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1961
DRAINAGE AREA,
2 360 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE LEWKO DAM - STATION NO. 05OG803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	230.852	230.865E	230.838	230.837E	---	---	---	1
2	---	---	---	---	---	230.885E	230.862	230.838E	230.837E	---	---	---	2
3	---	---	---	---	---	230.919E	230.858E	230.838	230.838	---	---	---	3
4	---	---	---	---	---	230.952	230.853	230.836E	230.838E	---	---	---	4
5	---	---	---	---	---	230.927E	230.853E	230.835E	230.837	---	---	---	5
6	---	---	---	---	---	230.902	230.853	230.833	230.835E	---	---	---	6
7	---	---	---	---	---	230.907E	230.856E	230.833E	230.832	---	---	---	7
8	---	---	---	---	---	230.912	230.860E	230.833	230.832E	---	---	---	8
9	---	---	---	---	---	230.909E	230.863	230.831E	230.832E	---	---	---	9
10	---	---	---	---	---	230.905E	230.858E	230.828	230.832	---	---	---	10
11	---	---	---	---	---	230.902	230.853	230.826E	230.832E	---	---	---	11
12	---	---	---	---	---	230.902E	230.853E	230.825E	230.832	---	---	---	12
13	---	---	---	---	---	230.902	230.853	230.823	230.832E	---	---	---	13
14	---	---	---	---	---	230.902E	230.855E	230.823E	230.832	---	---	---	14
15	---	---	---	---	---	230.902	230.856E	230.823	230.834E	---	---	---	15
16	---	---	---	---	---	230.895E	230.858	230.821E	230.835E	---	---	---	16
17	---	---	---	---	---	230.889E	230.861E	230.818	230.837	---	---	---	17
18	---	---	---	---	---	230.882	230.863	230.823E	230.845E	---	---	---	18
19	---	---	---	---	---	230.895E	230.863E	230.828E	230.852	---	---	---	19
20	---	---	---	---	---	230.907	230.863	230.833	230.852E	---	---	---	20
21	---	---	---	---	---	230.955E	230.861E	230.833E	230.852	---	---	---	21
22	---	---	---	---	---	231.002	230.860E	230.833	---	---	---	---	22
23	---	---	---	---	230.875	230.977E	230.858	230.833E	---	---	---	---	23
24	---	---	---	---	230.872	230.952E	230.856E	230.833	---	---	---	---	24
25	---	---	---	---	230.867	230.927	230.853	230.833E	---	---	---	---	25
26	---	---	---	---	230.865E	230.915E	230.853E	230.834E	---	---	---	---	26
27	---	---	---	---	230.864E	230.902	230.853	230.834E	---	---	---	---	27
28	---	---	---	---	230.862	230.887E	230.850E	230.835E	---	---	---	---	28
29	---		---	---	230.860E	230.872	230.846E	230.835E	---	---	---	---	29
30	---		---	---	230.857	230.869E	230.843	230.836E	---	230.873	---	---	30
31	---		---		230.855E		230.853	230.836E		---		---	31
MEAN	---	---	---	---	---	230.910	230.856	230.831	---	---	---	---	MEAN
MAX	---	---	---	---	---	231.002	230.865	230.838	---	---	---	---	MAX
MIN	---	---	---	---	---	230.852	230.843	230.818	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 231.002 ON JUN 22

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 39 05 N
LONG 097 23 23 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1955
DRAINAGE AREA,
2 050 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE SANFORD DAM - STATION NO. 05OG806

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	232.875E	232.845E	232.838E	232.785	232.785E	232.825	232.814E	---	1
2	---	---	---	---	---	232.864	232.858	232.828	232.782E	232.779E	232.828	232.813E	---	2
3	---	---	---	233.093	232.864E	232.858E	232.825E	232.779	232.773	232.840	232.812	---	3
4	---	---	---	233.212	232.864	232.858	232.821	232.772E	232.774E	232.834	232.821E	---	4
5	---	---	---	233.149E	232.857E	232.861E	232.826E	232.765E	232.776	232.834	232.831	---	5
6	---	---	---	233.087	232.850E	232.864	232.831E	232.757	232.785E	232.861	232.832E	---	6
7	---	---	---	233.082E	232.843	232.878E	232.835E	232.757E	232.794	232.858	232.834	---	7
8	---	---	---	233.076E	232.840E	232.892	232.840	232.757	232.789E	232.840	232.834E	---	8
9	---	---	---	233.071	232.837	232.889E	232.840E	232.779E	232.783E	232.821	232.834E	---	9
10	---	---	---	233.061E	232.827E	232.885E	232.840	232.800	232.778E	232.797	232.834	---	10
11	---	---	---	233.050	232.816E	232.882	232.834E	232.782E	232.772E	232.794	232.833E	---	11
12	---	---	---	233.053E	232.806	232.891E	232.828	232.764E	232.767	232.788	232.832E	---	12
13	---	---	---	233.056E	232.809E	232.899E	232.832E	232.745	232.764E	232.797	232.831	---	13
14	---	---	---	233.059	232.812	232.907	232.837	232.751E	232.761	232.803	232.830E	---	14
15	---	---	---	233.061E	232.814E	232.892E	232.829E	232.757	232.774E	232.812	232.829E	---	15
16	---	---	---	233.062	232.815	232.876	232.821	232.759E	232.788E	232.818	232.828E	---	16
17	---	---	---	233.044E	232.809E	232.867E	232.825	232.761	232.802E	232.825	232.826	---	17
18	---	---	---	233.026	232.803	232.858	232.846	232.756E	232.815	232.818	---	---	18
19	---	---	---	233.023E	232.811E	232.861E	232.831E	232.756E	232.822E	232.818	---	---	19
20	---	---	---	233.020	232.818E	232.864E	232.815	232.753E	232.830E	232.821	---	---	20
21	---	---	---	232.990E	232.826E	232.867	232.821E	232.751E	232.837	232.825	---	---	21
22	---	---	---	232.961E	232.834E	232.868E	232.828E	232.748	232.829E	232.840	---	---	22
23	---	---	---	232.931	232.841E	232.869E	232.834	232.759E	232.820E	232.858	---	---	23
24	---	---	---	232.917E	232.849	232.869E	232.829E	232.770	232.812	232.864	---	---	24
25	---	---	---	232.904	232.841E	232.870	232.824E	232.775E	232.812	232.852	---	---	25
26	---	---	---	232.900E	232.834	232.870E	232.818	232.780E	232.812	232.849	---	---	26
27	---	---	---	232.896E	232.843E	232.870	232.814E	232.785	232.803	232.843	---	---	27
28	---	---	---	232.893E	232.852	232.864E	232.809	232.782E	232.803	232.834	---	---	28
29	---		---	232.889E	232.835E	232.858	232.805E	232.779	232.803	232.840	---	---	29
30	---		---	232.885	232.818	232.848E	232.800	232.785E	232.812	232.837	---	---	30
31	---		---		232.832E		232.793E	232.791		232.815		---	31
MEAN	---	---	---	---	232.834	232.871	232.826	232.769	232.795	232.829	---	---	MEAN
MAX	---	---	---	---	232.875	232.907	232.846	232.800	232.837	232.864	---	---	MAX
MIN	---	---	---	---	232.803	232.845	232.793	232.745	232.761	232.788	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 233.212 ON APR 04
MINIMUM DAILY, 232.745 ON AUG 13

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 41 02 N
LONG 097 25 59 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1941
DRAINAGE AREA,
1 820 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE ST. NORBERT DAM - STATION NO. 05OG804

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	226.169	226.264E	226.150	225.800	226.176	---	---	1
2	---	---	---	---	---	226.314E	226.224	226.145	225.765	226.176	---	---	2
3	---	---	---	---	---	226.459E	226.219E	226.125E	225.760E	226.186E	---	---	3
4	---	---	---	---	---	226.604	226.214	226.105	225.755	226.196	---	---	4
5	---	---	---	---	---	226.434E	226.212E	226.095	225.750E	226.186E	---	---	5
6	---	---	---	---	---	226.264	226.209	226.088E	225.745	226.176	---	---	6
7	---	---	---	---	226.221	226.259	226.204	226.082E	225.746E	226.176E	---	---	7
8	---	---	---	---	226.219E	226.244E	226.204E	226.075	225.746	226.176	---	---	8
9	---	---	---	---	226.216	226.229	226.204	226.065	225.746E	226.181E	---	---	9
10	---	---	---	---	226.214	226.299	226.203E	226.055	225.746	226.186	---	---	10
11	---	---	---	---	226.208E	226.294	226.202	226.043E	225.746	226.176	---	---	11
12	---	---	---	---	226.202E	226.274	226.209	226.030E	225.733E	226.179E	---	---	12
13	---	---	---	---	226.196E	226.283E	226.207E	226.018E	225.719E	226.181	---	---	13
14	---	---	---	---	226.190E	226.292E	226.204	226.005	225.706	226.171E	---	---	14
15	---	---	---	---	226.184	226.300E	226.214	225.990	225.696	226.161	---	---	15
16	---	---	---	---	226.194E	226.309	226.217E	225.965	225.766E	226.156	---	---	16
17	---	---	---	---	226.204	226.297E	226.219	225.955E	225.836E	226.161E	---	---	17
18	---	---	---	---	226.214	226.284	226.227E	225.945	225.906	226.166	---	---	18
19	---	---	---	---	226.214	226.292	226.236E	225.935	225.918E	226.176E	---	---	19
20	---	---	---	---	226.217E	226.296E	226.244	225.918E	225.929E	226.186	---	---	20
21	---	---	---	---	226.219	226.299	226.264	225.902E	225.941	226.171	---	---	21
22	---	---	---	---	226.222E	226.302E	226.264	225.885	225.951	226.184E	---	---	22
23	---	---	---	---	226.224	226.304	226.190	225.875	226.018E	226.198E	---	---	23
24	---	---	---	---	226.229	226.307	226.175	225.860E	226.084E	226.211	---	---	24
25	---	---	---	---	226.229	226.304	226.175	225.845	226.151	226.226	---	---	25
26	---	---	---	---	226.222E	226.302E	226.180	225.843E	226.159E	226.219E	---	---	26
27	---	---	---	---	226.216E	226.301E	226.175	225.840	226.166	226.211	---	---	27
28	---	---	---	---	226.209	226.299	226.170E	225.828E	226.171	226.210E	---	---	28
29	---		---	---	226.207E	226.302E	226.165	225.815	226.173E	226.209E	---	---	29
30	---		---	---	226.204	226.304	226.160E	225.810	226.174E	226.208	---	---	30
31	---		---		226.184		226.155E	225.805E		226.207E		---	31
MEAN	---	---	---	---	---	226.307	226.207	225.971	225.883	226.187	---	---	MEAN
MAX	---	---	---	---	---	226.604	226.264	226.150	226.174	226.226	---	---	MAX
MIN	---	---	---	---	---	226.169	226.155	225.805	225.696	226.156	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 226.604 ON JUN 04
MINIMUM DAILY, 225.696 ON SEP 15

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 43 17 N
LONG 097 14 36 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1941
DRAINAGE AREA,
2 410 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE STARBUCK DAM (P.R. 332) - STATION NO. 05OG805

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	235.623	---	---	235.644	---	1
2	---	---	---	---	---	---	---	235.629	---	---	---	---	2
3	---	---	---	---	---	---	---	235.626	---	---	---	---	3
4	---	---	---	---	---	---	---	235.627E	---	---	---	---	4
5	---	---	---	---	235.656	---	---	235.628E	---	---	---	---	5
6	---	---	---	---	---	---	---	235.629	---	---	---	---	6
7	---	---	---	---	---	---	---	235.626	---	---	---	---	7
8	---	---	---	---	---	---	---	235.629	---	---	---	---	8
9	---	---	---	---	---	---	---	235.629	---	---	---	---	9
10	---	---	---	---	---	---	235.641	235.617	---	---	---	---	10
11	---	---	---	---	---	235.684	235.650	235.613	---	---	---	---	11
12	---	---	---	---	---	235.691E	235.641	---	---	---	---	---	12
13	---	---	---	---	---	235.699	235.641	---	---	---	---	---	13
14	---	---	---	---	---	235.696	235.641	---	---	---	---	---	14
15	---	---	---	---	---	235.677	235.641E	---	---	---	---	---	15
16	---	---	---	---	---	235.665	235.641E	---	---	---	---	---	16
17	---	---	---	---	---	235.665	235.641	---	---	---	---	---	17
18	---	---	---	---	---	235.687	235.638	---	---	---	---	---	18
19	---	---	---	---	---	235.644	235.644	---	---	---	---	---	19
20	---	---	---	---	---	235.687E	235.643E	---	---	---	---	---	20
21	---	---	---	---	---	235.729	235.642E	---	---	---	---	---	21
22	---	---	---	---	---	235.697E	235.641E	---	---	---	---	---	22
23	---	---	---	---	---	235.665	235.640E	---	---	---	---	---	23
24	---	---	---	---	---	235.668E	235.640E	---	---	---	---	---	24
25	---	---	---	---	---	235.671	235.639E	---	---	---	---	---	25
26	---	---	---	---	---	235.665	235.638	---	---	---	---	---	26
27	---	---	---	---	---	235.674	235.635E	---	---	---	---	---	27
28	---	---	---	235.674	---	235.667E	235.632E	---	---	---	---	---	28
29	---		---	235.783E	---	235.659	235.629	---	---	---	---	---	29
30	---		---	235.891	---	---	235.626	---	---	---	---	---	30
31	---		---	---	---		235.623	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 46 12 N
LONG 097 36 54 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1961
DRAINAGE AREA,
1 710 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER AT ELIE - STATION NO. 05OG807

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	239.192E	---	239.147E	239.168E	---	---	---	1
2	---	---	---	---	---	239.195E	---	239.146E	239.160	---	---	---	2
3	---	---	---	---	---	239.198	---	239.144E	239.157E	---	---	---	3
4	---	---	---	---	---	239.199E	---	239.143E	239.154E	---	---	---	4
5	---	---	---	---	239.246	239.199	---	239.142E	239.151E	---	---	---	5
6	---	---	---	---	239.236	239.194	---	239.140E	239.149E	---	---	---	6
7	---	---	---	---	239.212E	239.181	239.192	239.139E	239.146E	---	---	---	7
8	---	---	---	---	239.187E	239.181	239.195E	239.138E	239.143E	---	---	---	8
9	---	---	---	---	239.163E	239.200E	239.197E	239.136E	239.140	---	---	---	9
10	---	---	---	---	239.139E	239.219	239.200	239.135	239.146E	---	---	---	10
11	---	---	---	---	239.114E	239.227E	239.194E	239.148E	239.152E	---	---	---	11
12	---	---	---	---	239.090	239.234	239.188	239.160	239.157E	---	---	---	12
13	---	---	---	---	239.094	239.214	239.188E	239.160E	239.163E	---	---	---	13
14	---	---	---	---	---	239.199	239.188E	239.160	239.169E	---	239.154	---	14
15	---	---	---	---	---	239.199E	239.188E	239.150E	239.175	---	---	---	15
16	---	---	---	---	---	239.199	239.188	239.140	239.168	---	---	---	16
17	---	---	---	---	---	239.194	239.185E	239.144E	239.167E	---	---	---	17
18	---	---	---	---	---	239.198E	239.182E	239.148E	239.167E	---	---	---	18
19	---	---	---	---	---	239.201	239.178E	239.152	239.166E	---	---	---	19
20	---	---	---	---	---	239.205E	239.175	239.154E	239.166E	---	---	---	20
21	---	---	---	---	---	239.209	239.173E	239.155	239.165E	---	---	---	21
22	---	---	---	239.252	---	---	239.172E	239.152	239.165	---	239.175	---	22
23	---	---	---	---	239.213	---	239.170E	239.145	239.170	---	---	---	23
24	---	---	---	---	239.206E	---	239.168E	239.138E	---	---	---	---	24
25	---	---	---	---	239.199E	---	239.167E	239.130	---	---	---	---	25
26	---	---	---	---	239.192	---	239.165	239.154	---	---	---	---	26
27	---	---	---	---	239.176	---	239.161E	239.162E	---	---	---	---	27
28	---	---	---	---	239.179E	---	239.158E	239.170	---	---	---	---	28
29	---		---	---	239.182E	---	239.154E	239.172E	---	---	---	---	29
30	---		---	---	239.185E	---	239.150	239.173E	---	---	---	---	30
31	---		---		239.189E		239.149E	239.175		---		---	31
MEAN	---	---	---	---	---	---	---	239.150	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	239.175	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	239.130	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 54 05 N
LONG 097 45 52 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1962
DRAINAGE AREA,
192 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.048B	0.312	0.366	0.223	0.033	0.232	0.317	---	---	1
2	---	---	0 B	0.040B	0.288	0.421	0.195	0.060	0.203	0.273	---	---	2
3	---	---	0 B	0.762B	0.257	0.449	0.179	0.118	0.179	0.263	---	---	3
4	---	---	0 B	2.37 B	0.222	0.407	0.167	0.147	0.150	0.568	---	---	4
5	---	---	0 B	1.75 B	0.205	0.442	0.156	0.152	0.136	0.431	---	---	5
6	---	---	0 B	1.11 B	0.162	0.410	0.187	0.136	0.130	0.142	---	---	6
7	---	---	0 B	0.892B	0.137	0.411	0.244	0.100	0.104	0.012	---	---	7
8	---	---	0 B	0.679B	0.102	0.559	0.242	0.072	0.082	0.032	---	---	8
9	---	---	0 B	0.466B	0.062	0.565	0.267	0.040	0.064	0.161	---	---	9
10	---	---	0 B	0.428B	0.041	0.540	0.275	0.058	0.059	0.213	---	---	10
11	---	---	0 B	0.388B	0.041	0.541	0.265	0.117	0.096	0.237	---	---	11
12	---	---	0 B	0.346B	0.014	0.639	0.248	0.141	0.132	0.198	---	---	12
13	---	---	0 B	0.349B	0.028	0.546	0.239	0.148	0.138	0.222	---	---	13
14	---	---	0 B	0.359B	0.071	0.444	0.222	0.157	0.176	0.232	---	---	14
15	---	---	0 B	0.369B	0.077	0.419	0.209	0.138	0.174	0.228	---	---	15
16	---	---	0 B	0.373B	0.294	0.405	0.254	0.124	0.128	0.199	---	---	16
17	---	---	0 B	0.387B	0.480	0.379	0.294	0.106	0.170	0.161	---	---	17
18	---	---	0 B	0.466B	0.402	0.367	0.229	0.096	0.267	0.149	---	---	18
19	---	---	0 B	0.601B	0.328	0.363	0.186	0.090	0.207	0.255	---	---	19
20	---	---	0 B	0.740B	0.280	0.385	0.171	0.096	0.194	0.332	---	---	20
21	---	---	0 B	0.869B	0.262	0.433	0.193	0.094	0.224	0.419	---	---	21
22	---	---	0 B	0.802	0.361	0.460	0.176	0.083	0.221	0.443	---	---	22
23	---	---	0 B	0.775	0.420	0.401	0.130	0.079	0.218	0.378	---	---	23
24	---	---	0 B	0.635	0.399	0.368	0.121	0.087	0.236	0.314	---	---	24
25	---	---	0 B	0.576	0.351	0.339	0.118	0.087	0.211	0.299	---	---	25
26	---	---	0 B	0.501	0.287	0.305	0.125	0.160	0.210	0.297	---	---	26
27	---	---	0 B	0.424	0.239	0.288	0.137	0.345	0.229	0.365	---	---	27
28	---	---	0 B	0.425	0.179	0.283	0.131	0.268	0.241	0.279	---	---	28
29	---	---	0.001B	0.383	0.093	0.266	0.103	0.229	0.249	0.271	---	---	29
30	---		0.026B	0.356	0.153	0.251	0.070	0.291	0.321	0.271	---	---	30
31	---		0.051B		0.309		0.053	0.273		0.286A		---	31
TOTAL	---	---	0.078	18.619	6.856	12.452	5.809	4.125	5.381	8.247	---	---	TOTAL
MEAN	---	---	0.003	0.621	0.221	0.415	0.187	0.133	0.179	0.266	---	---	MEAN
MAX	---	---	0.051	2.37	0.480	0.639	0.294	0.345	0.321	0.568	---	---	MAX
MIN	---	---	0	0.040	0.014	0.251	0.053	0.033	0.059	0.012	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.251
MAXIMUM DAILY, 2.37B ON APR 04
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 13 N
LONG 097 45 54 W
DRAINAGE AREA, 194 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	502
FEB	---	AUG	356
MAR	6.74	SEP	465
APR	1 610	OCT	713
MAY	592	NOV	---
JUN	1 080	DEC	---

TOTAL DISCHARGE, 5 320 dam³

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.150B	0.093B	0.028B	4.24 B	0.372	0.353	0.244	0.085	0.082	0.098	0.276	0.145B	1
2	0.140B	0.084B	0.040B	10.7 B	0.464	0.960	0.258	0.066	0.062	0.129	0.292	0.145B	2
3	0.153B	0.082B	0.045B	10.4 B	0.457	0.985	0.367	0.059	0.049	0.187	0.268	0.160B	3
4	0.160B	0.084B	0.038B	12.8 B	0.531	0.878	0.360	0.039	0.116	0.183	0.230	0.160B	4
5	0.158B	0.089B	0.049B	15.2 B	0.585	0.925	0.288	0.035	0.150	0.167	0.232	0.170B	5
6	0.163B	0.086B	0.046B	11.5 B	0.549	0.814	0.257	0.024	0.128	0.308	0.243	0.183B	6
7	0.168B	0.066B	0.038B	9.57 B	0.534	0.668	0.352	0.023	0.111	0.273	0.251	0.185B	7
8	0.178B	0.096B	0.022B	9.48 B	0.572	1.12	0.353	0.019	0.113	0.172	0.273	0.170B	8
9	0.193B	0.105B	0.040B	8.62 B	0.433	1.17	0.326	0.016	0.114	0.094	0.281	0.203B	9
10	0.198B	0.100B	0.064B	7.85 B	0.302	1.17	0.300	0.016	0.090	0.055	0.230B	0.227B	10
11	0.227B	0.089B	0.087B	7.36 B	0.312	1.07	0.296	0.016	0.076	0.067	0.251B	0.249B	11
12	0.205B	0.087B	0.138B	6.13 B	0.266	0.983	0.288	0.018	0.063	0.091	0.232B	0.251B	12
13	0.178B	0.087B	0.243B	5.57 B	0.297	1.28	0.285	0.017	0.051	0.109	0.219B	0.243B	13
14	0.158B	0.075B	0.281B	5.48 B	0.362	1.48	0.263	0.016	0.042	0.145	0.203B	0.222B	14
15	0.160B	0.063B	0.281B	5.26 B	0.326	1.20	0.262	0.011	0.039	0.174	0.170B	0.208B	15
16	0.148B	0.060B	0.332B	6.92 B	0.399	0.913	0.275	0.030	0.037	0.203	0.158B	0.208B	16
17	0.145B	0.059B	0.300B	6.57 B	0.565	0.728	0.271	0.039	0.035	0.226	0.208B	0.203B	17
18	0.127B	0.042B	0.249B	6.78 B	0.610	0.567	0.208	0.048	0.069	0.214	0.214B	0.193B	18
19	0.108B	0.040B	0.222B	6.31	0.752	0.534	0.219	0.037	0.128	0.205	0.155B	0.180B	19
20	0.091B	0.035B	0.208B	4.67	0.741	0.515	0.223	0.055	0.153	0.189	0.138B	0.195B	20
21	0.080B	0.037B	0.203B	2.91	0.694	1.28	0.213	0.068	0.203	0.193	0.175B	0.193B	21
22	0.080B	0.035B	0.193B	1.95	0.697	2.46	0.176	0.067	0.180	0.253	0.173B	0.178B	22
23	0.064B	0.042B	0.175B	1.37	0.664	1.88	0.156	0.073	0.110	0.304	0.155B	0.173B	23
24	0.083B	0.049B	0.173B	1.10	0.669	1.34	0.153	0.073	0.124	0.344	0.214B	0.173B	24
25	0.098B	0.049B	0.165B	0.927	0.687	0.993	0.143	0.071	0.113	0.253	0.198B	0.198B	25
26	0.103B	0.043B	0.153B	0.718	0.669	0.716	0.137	0.073	0.079	0.209	0.203B	0.193B	26
27	0.110B	0.039B	0.128B	0.525	0.664	0.492	0.141	0.073	0.039	0.194	0.193B	0.170B	27
28	0.115B	0.032B	0.138B	0.510	0.605	0.379	0.152	0.072	0.028	0.113	0.173B	0.185B	28
29	0.110B		0.128B	0.446	0.489	0.301	0.152	0.076	0.030	0.196	0.163B	0.168B	29
30	0.108B		0.284B	0.393	0.403	0.295	0.107	0.075	0.058	0.206	0.158B	0.110B	30
31	0.103B		1.14 B		0.351		0.104	0.116		0.243A		0.091B	31
TOTAL	4.270	1.848	5.631	172.259	16.021	28.449	7.329	1.506	2.672	5.797	6.329	5.732	TOTAL
MEAN	0.138	0.066	0.182	5.74	0.517	0.948	0.236	0.049	0.089	0.187	0.211	0.185	MEAN
MAX	0.227	0.105	1.14	15.2	0.752	2.46	0.367	0.116	0.203	0.344	0.292	0.251	MAX
MIN	0.064	0.032	0.022	0.393	0.266	0.295	0.104	0.011	0.028	0.055	0.138	0.091	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.706
MAXIMUM DAILY, 15.2B ON APR 05
MINIMUM DAILY, 0.011 ON AUG 15
MAXIMUM INSTANTANEOUS,
15.6B AT 11:23 CST ON APR 05

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 40 45 N
LONG 097 25 46 W
DRAINAGE AREA, 1 820 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1984

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	369	JUL	633
FEB	160	AUG	130
MAR	487	SEP	231
APR	14 900	OCT	501
MAY	1 380	NOV	547
JUN	2 460	DEC	495

TOTAL DISCHARGE, 22 300 dam³

LAKE IRWIN NEAR NEEPAWA - STATION NO. 05LL010

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	358.043	358.960	359.086	359.051	359.011	358.843	358.518	358.222	358.171	358.189	1
2	---	---	358.043	359.067	359.086	359.036	358.999	358.828	358.512	358.219	358.168	358.189	2
3	---	---	358.044	359.145	359.085	359.028	359.003	358.822	358.506	358.209	358.170	358.187	3
4	---	---	358.043	359.176	359.084	359.029	359.008	358.812	358.498	358.197	358.170	358.188	4
5	---	---	358.044	359.185	359.077	359.025	359.006	358.797	358.486	358.196	358.169	358.189	5
6	---	---	358.045	359.188	359.067	359.022	359.019	358.784	358.475	358.187	358.168	358.187	6
7	---	---	358.046	359.198	359.060	359.024	359.029	358.770	358.462	358.180	358.169	358.187	7
8	---	---	358.047	359.198	359.054	359.033	359.041	358.750	358.447	358.178	358.169	358.190	8
9	---	---	358.048	359.187	359.052	359.034	359.044	358.737	358.436	358.176	358.174	358.189	9
10	358.029A	---	358.048	359.170	359.053	359.041	359.044	358.723	358.426	358.170	358.173	358.189	10
11	---	---	358.059	359.147	359.050	359.054	359.047	358.712	358.410	358.156	358.174	358.197	11
12	---	---	358.086	359.135	359.050	359.054	359.050	358.706	358.397	358.157	358.174	358.206	12
13	---	---	358.201	359.131	359.048	359.055	359.045	358.687	358.383	358.153	358.176	358.208	13
14	---	---	358.304	359.125	359.052	359.053	359.039	358.673	358.371	358.147	358.175	358.209	14
15	---	---	358.375	359.119	359.055	359.054	359.030	358.662	358.355	358.142	358.175	358.210	15
16	---	---	358.410	359.111	359.086	359.054	359.023	358.648	358.347	358.141	358.176	358.210	16
17	---	---	358.439	359.103	359.120	359.051	359.013	358.633	358.336	358.139	358.176	358.211	17
18	---	---	358.471	359.096	359.138	359.056	359.004	358.619	358.324	358.136	358.175	358.216	18
19	---	---	358.499	359.094	359.143	359.059	358.993	358.613	358.312	358.137	358.176	358.223	19
20	---	358.043A	358.521	359.095	359.134	359.056	358.981	358.604	358.301	358.141	358.179	358.222	20
21	---	---	358.536	359.095	359.121	359.055	358.972	358.599	358.289	358.145	358.187	358.219	21
22	---	---	358.555	359.094	359.115	359.052	358.960	358.599	358.279	358.146	358.191	358.220	22
23	---	---	358.565	359.097	359.110	359.053	358.950	358.595	358.269	358.150	358.193	358.217	23
24	---	---	358.573	359.095	359.102	359.057	358.939	358.590	358.254	358.155	358.193	358.216	24
25	---	---	358.581	359.091	359.088	359.056	358.929	358.586	358.250	358.157	358.191	358.214	25
26	---	358.042A	358.592	359.090	359.081	359.054	358.922	358.579	358.250	358.159	358.193	358.214	26
27	---	358.042	358.608	359.086	359.073	359.049	358.907	358.580	358.242	358.162	358.193	358.214	27
28	---	358.043	358.630A	359.089	359.064	359.040	358.896	358.571	358.238	358.166	358.193	358.214	28
29	---		358.691E	359.089	359.057	359.028	358.884	358.560	358.236	358.169	358.192	358.215	29
30	---		358.752A	359.086	359.059	359.021	358.872	358.550	358.229	358.168	358.192	358.214	30
31	---		358.847		359.060		358.858	358.529		358.169		358.211	31
MEAN	---	---	358.347	359.118	359.081	359.044	358.984	358.670	358.361	358.165	358.179	358.205	MEAN
MAX	---	---	358.847	359.198	359.143	359.059	359.050	358.843	358.518	358.222	358.193	358.223	MAX
MIN	---	---	358.043	358.960	359.048	359.021	358.858	358.529	358.229	358.136	358.168	358.187	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 359.198 ON APR 07

MAXIMUM INSTANTANEOUS,
359.200 AT 07:09 CST ON APR 08

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "NEEPAWA RESERVOIR NEAR NEEPAWA"

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 12 48 N
LONG 099 26 38 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1960

DRAINAGE AREA,
850 km²

LAKE MANITOBA AT STEEP ROCK - STATION NO. 05LK002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.372	247.382	247.384	247.399	247.467	247.586	247.607	247.524	247.404	247.320	247.273	247.281	1
2	247.368	247.385	247.380	247.401	247.466	247.447	247.568	247.533	247.409	247.319	247.280	247.278	2
3	247.363	247.391	247.383	247.406	247.470	247.438	247.524	247.509	247.421	247.344	247.266	247.276	3
4	247.369	247.388	247.382	247.396	247.472	247.510	247.528	247.475	247.416	247.339	247.265	247.286	4
5	247.369	247.387	247.381	247.393	247.469	247.541	247.535	247.483	247.431	247.290	247.262	247.288	5
6	247.375	247.390	247.383	247.395	247.467	247.555	247.564	247.493	247.388	247.269	247.254	247.285	6
7	247.369	247.389	247.383	247.400	247.456	247.539	247.569	247.517	247.409	247.277	247.283	247.286	7
8	247.373	247.386	247.384	247.402	247.461	247.534	247.576	247.504	247.392	247.283	247.266	247.287	8
9	247.367	247.386	247.387	247.398	247.456	247.564	247.562	247.462	247.385	247.312	247.248	247.291	9
10	247.372	247.383	247.379	247.402	247.474	247.576	247.542	247.445	247.391	247.354	247.232	247.287	10
11	247.376	247.381	247.373	247.406	247.467	247.620	247.543	247.474	247.383	247.353	247.212	247.286	11
12	247.378	247.382	247.367	247.412	247.477	247.634	247.560	247.485	247.359	247.345	247.226	247.291	12
13	247.380	247.383	247.377	247.411	247.477	247.637	247.592	247.504	247.338	247.329	247.249	247.292	13
14	247.375	247.380	247.379	247.415	247.487	247.584	247.593	247.479	247.359	247.312	247.253	247.295	14
15	247.378	247.371	247.376	247.419	247.504	247.607	247.574	247.453	247.308	247.311	247.254	247.299	15
16	247.377	247.364	247.386	247.415	247.483	247.598	247.566	247.409	247.325	247.283	247.259	247.296	16
17	247.371	247.375	247.395	247.417	247.474	247.578	247.578	247.383	247.363	247.253	247.261	247.293	17
18	247.370	247.374	247.400	247.424	247.490	247.588	247.566	247.371	247.365	247.273	247.261	247.288	18
19	247.368	247.373	247.403	247.424	247.512	247.595	247.541	247.406	247.350	247.303	247.263	247.282	19
20	247.370	247.381	247.398	247.417	247.534	247.585	247.513	247.428	247.329	247.288	247.263	247.279	20
21	247.371	247.378	247.395	247.417	247.555	247.553	247.491	247.446	247.291	247.294	247.271	247.284	21
22	247.373	247.373	247.402	247.411	247.569	247.496	247.500	247.467	247.262	247.279	247.280	247.286	22
23	247.370	247.373	247.407	247.412	247.561	247.515	247.521	247.475	247.300	247.286	247.264	247.294	23
24	247.369	247.370	247.408	247.410	247.556	247.548	247.533	247.463	247.310	247.290	247.261	247.294	24
25	247.377	247.379	247.407	247.416	247.558	247.563	247.511	247.427	247.308	247.321	247.266	247.298	25
26	247.380	247.376	247.407	247.415	247.553	247.548	247.519	247.411	247.314	247.315	247.271	247.300	26
27	247.381	247.383	247.405	247.402	247.549	247.560	247.567	247.434	247.295	247.286	247.272	247.302	27
28	247.378	247.385	247.405	247.427	247.521	247.579	247.567	247.431	247.279	247.321	247.276	247.304	28
29	247.375		247.410	247.456	247.537	247.577	247.511	247.425	247.286	247.308	247.280	247.300	29
30	247.379		247.413	247.462	247.561	247.579	247.500	247.418	247.327	247.304	247.289	247.303	30
31	247.381		247.407		247.580		247.509	247.440		247.310		247.300	31
MEAN	247.373	247.380	247.392	247.413	247.505	247.561	247.546	247.457	247.350	247.306	247.262	247.291	MEAN
MAX	247.381	247.391	247.413	247.462	247.580	247.637	247.607	247.533	247.431	247.354	247.289	247.304	MAX
MIN	247.363	247.364	247.367	247.393	247.456	247.438	247.491	247.371	247.262	247.253	247.212	247.276	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 247.403
MAXIMUM DAILY, 247.637 ON JUN 13
MINIMUM DAILY, 247.212 ON NOV 11
MAXIMUM INSTANTANEOUS,
247.726 AT 04:09 CST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 26 26 N
LONG 098 48 13 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1934
DRAINAGE AREA,
79 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1964 ADJ.)

LAKE MANITOBA AT THE NARROWS - STATION NO. 05LK003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.363	247.369	247.359	247.378	247.437	247.556	247.572	247.512	247.340	247.281	247.137	247.281	1
2	247.357	247.371	247.355	247.375	247.440	247.254	247.517	247.483	247.455	247.340	247.213	247.281	2
3	247.355	247.371	247.356	247.376	247.442	247.268	247.509	247.417	247.361	247.260	247.185	247.282	3
4	247.355	247.374	247.353	247.381	247.446	247.562	247.490	247.409	247.365	247.186	247.326	247.292	4
5	247.352	247.369	247.352	247.379	247.444	247.513	247.535	247.474	247.403	247.286	247.278	247.291	5
6	247.360	247.376	247.354	247.379	247.451	247.527	247.661	247.478	247.341	247.214	247.209	247.290	6
7	247.356	247.375	247.356	247.379	247.445	247.534	247.521	247.486	247.381	247.281	247.253	247.293	7
8	247.357	247.368	247.353	247.379	247.438	247.484	247.542	247.431	247.328	247.304	247.267	247.294	8
9	247.361	247.367	247.353	247.378	247.404	247.553	247.525	247.391	247.348	247.317	247.237	247.291	9
10	247.363	247.365	247.350	247.377	247.457	247.603	247.543	247.425	247.377	247.371	247.195	247.289	10
11	247.358	247.364	247.347	247.377	247.454	247.576	247.543	247.470	247.337	247.218	247.198	247.290	11
12	247.364	247.363	247.346	247.380	247.439	247.584	247.553	247.447	247.367	247.303	247.221	247.293	12
13	247.365	247.358	247.358	247.377	247.468	247.499	247.567	247.448	247.270	247.298	247.283	247.295	13
14	247.361	247.360	247.366	247.375	247.453	247.508	247.546	247.372	247.332	247.253	247.280	247.293	14
15	247.364	247.356	247.365	247.379	247.484	247.573	247.500	247.433	247.231	247.268	247.259	247.291	15
16	247.364	247.353	247.374	247.383	247.482	247.546	247.543	247.378	247.347	247.252	247.262	247.291	16
17	247.360	247.358	247.390	247.386	247.306	247.520	247.506	247.367	247.432	247.209	247.268	247.288	17
18	247.362	247.365	247.387	247.388	247.243	247.558	247.504	247.377	247.304	247.298	247.267	247.289	18
19	247.361	247.364	247.389	247.393	247.509	247.545	247.503	247.407	247.297	247.410	247.271	247.280	19
20	247.360	247.370	247.386	247.392	247.522	247.499	247.498	247.400	247.320	247.204	247.271	247.276	20
21	247.360	247.369	247.379	247.396	247.512	247.504	247.487	247.416	247.080	247.265	247.271	247.279	21
22	247.359	247.365	247.383	247.393	247.531	247.471	247.507	247.426	247.175	247.265	247.279	247.281	22
23	247.359	247.359	247.381	247.395	247.497	247.550	247.537	247.411	247.329	247.258	247.244	247.290	23
24	247.359	247.363	247.383	247.391	247.518	247.569	247.530	247.393	247.290	247.258	247.268	247.289	24
25	247.364	247.364	247.384	247.402	247.529	247.539	247.508	247.374	247.305	247.345	247.263	247.284	25
26	247.364	247.361	247.378	247.405	247.526	247.536	247.531	247.395	247.292	247.256	247.278	247.284	26
27	247.360	247.362	247.379	247.394	247.518	247.565	247.558	247.371	247.262	247.149	247.275	247.280	27
28	247.359	247.363	247.377	247.406	247.518	247.534	247.484	247.404	247.294	247.276	247.276	247.281	28
29	247.359		247.375	247.440	247.529	247.537	247.394	247.404	247.295	247.267	247.281	247.281	29
30	247.354		247.375	247.442	247.548	247.554	247.471	247.421	247.339	247.281	247.283	247.281	30
31	247.368		247.378		247.554		247.492	247.393		247.293		247.279	31
MEAN	247.360	247.365	247.368	247.389	247.469	247.521	247.522	247.420	247.320	247.276	247.253	247.287	MEAN
MAX	247.368	247.376	247.390	247.442	247.554	247.603	247.661	247.512	247.455	247.410	247.326	247.295	MAX
MIN	247.352	247.353	247.346	247.375	247.243	247.254	247.394	247.367	247.080	247.149	247.137	247.276	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 247.379
MAXIMUM DAILY, 247.661 ON JUL 06
MINIMUM DAILY, 247.080 ON SEP 21
MAXIMUM INSTANTANEOUS,
247.896 AT 16:56 CST ON JUL 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 04 50 N
LONG 098 46 50 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1934
DRAINAGE AREA,
79 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1964 ADJ.)

LAKE MANITOBA NEAR TOUTES AIDES - STATION NO. 05LK004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.281	247.286	247.290	247.301	247.364	247.549	247.532	247.455	247.269	247.224	247.206	247.201	1
2	247.278	247.291	247.283	247.301	247.376	247.599	247.541	247.442	247.340	247.276	247.091	247.199	2
3	247.276	247.293	247.289	247.306	247.389	247.420	247.588	247.407	247.358	247.207	247.037	247.196	3
4	247.272	247.293	247.286	247.304	247.392	247.415	247.546	247.345	247.298	247.083	247.055	247.204	4
5	247.273	247.291	247.287	247.295	247.391	247.453	247.467	247.349	247.321	247.130	247.123	247.204	5
6	247.277	247.294	247.286	247.297	247.399	247.414	247.519	247.391	247.331	247.101	247.072	247.204	6
7	247.283	247.297	247.287	247.305	247.399	247.477	247.567	247.392	247.289	247.115	247.100	247.204	7
8	247.283	247.295	247.291	247.313	247.385	247.470	247.485	247.413	247.310	247.161	247.135	247.207	8
9	247.284	247.288	247.282	247.311	247.370	247.451	247.456	247.365	247.271	247.186	247.120	247.205	9
10	247.292	247.287	247.288	247.307	247.381	247.502	247.474	247.350	247.255	247.229	247.110	247.206	10
11	247.287	247.287	247.282	247.308	247.379	247.576	247.480	247.395	247.292	247.155	247.117	247.209	11
12	247.284	247.285	247.277	247.311	247.379	247.532	247.439	247.390	247.321	247.159	247.130	247.208	12
13	247.290	247.279	247.275	247.313	247.393	247.546	247.458	247.363	247.326	247.214	247.149	247.213	13
14	247.286	247.279	247.277	247.319	247.401	247.501	247.496	247.333	247.247	247.211	247.160	247.220	14
15	247.284	247.282	247.285	247.318	247.419	247.502	247.441	247.375	247.237	247.164	247.170	247.221	15
16	247.287	247.276	247.289	247.313	247.449	247.550	247.434	247.397	247.239	247.180	247.175	247.221	16
17	247.282	247.274	247.290	247.315	247.365	247.526	247.445	247.372	247.299	247.152	247.181	247.218	17
18	247.282	247.270	247.292	247.326	247.390	247.489	247.385	247.385	247.279	247.170	247.180	247.215	18
19	247.278	247.275	247.300	247.333	247.439	247.518	247.369	247.362	247.251	247.260	247.185	247.207	19
20	247.278	247.277	247.305	247.335	247.467	247.450	247.364	247.354	247.309	247.227	247.189	247.198	20
21	247.282	247.281	247.303	247.329	247.486	247.436	247.348	247.360	247.263	247.190	247.184	247.193A	21
22	247.283	247.284	247.300	247.332	247.501	247.438	247.361	247.388	247.158	247.235	247.171	247.206E	22
23	247.289	247.281	247.305	247.330	247.476	247.443	247.402	247.411	247.145	247.214	247.168	247.220E	23
24	247.283	247.274	247.310	247.328	247.478	247.487	247.445	247.394	247.181	247.175	247.174	247.224E	24
25	247.285	247.281	247.312	247.328	247.484	247.477	247.408	247.386	247.188	247.230	247.178	247.210E	25
26	247.291	247.286	247.312	247.328	247.468	247.474	247.500	247.348	247.201	247.252	247.186	247.215E	26
27	247.285	247.285	247.310	247.324	247.454	247.532	247.524	247.332	247.160	247.166	247.189	247.226E	27
28	247.285	247.290	247.307	247.338	247.479	247.533	247.496	247.288	247.181	247.184	247.191	247.220E	28
29	247.284		247.303	247.351	247.476	247.513	247.428	247.289	247.191	247.211	247.201	247.215E	29
30	247.283		247.309	247.359	247.479	247.505	247.382	247.313	247.234	247.208	247.203	247.212E	30
31	247.286		247.309		247.493		247.391	247.292		247.228		247.216E	31
MEAN	247.283	247.284	247.294	247.319	247.426	247.493	247.459	247.369	247.258	247.190	247.151	247.210	MEAN
MAX	247.292	247.297	247.312	247.359	247.501	247.599	247.588	247.455	247.358	247.276	247.206	247.226	MAX
MIN	247.272	247.270	247.275	247.295	247.364	247.414	247.348	247.288	247.145	247.083	247.037	247.193	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 247.312
MAXIMUM DAILY, 247.599 ON JUN 02
MINIMUM DAILY, 247.037 ON NOV 03
MAXIMUM INSTANTANEOUS,
247.751 AT 19:18 CST ON JUN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 31 18 N
LONG 099 32 23 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1934
DRAINAGE AREA,
79 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM 1928 ADJUSTMENT

LAKE MANITOBA NEAR WESTBOURNE - STATION NO. 05LL012

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.342	247.364	---	247.468E	247.443	247.496	247.447	247.420	247.431	247.315	247.363	247.277E	1
2	247.344	247.373	---	247.469E	247.446	247.918	247.588	247.435	247.322	247.285	247.265	247.275E	2
3	247.347	247.374	---	247.471A	247.445	247.728	247.627	247.511	247.403	247.236	247.338	247.274E	3
4	247.348	247.363	---	247.473	247.444	247.520	247.582	247.504	247.391	247.302	247.271	247.272E	4
5	247.349	247.369	---	247.447	247.451	247.483	247.567	247.438	247.311	247.389	247.292	247.271A	5
6	247.341	247.364	---	247.439	247.451	247.513	247.506	247.435	247.431	247.354	247.285	247.269	6
7	247.346	247.362	---	247.425	247.460	247.526	247.552	247.395	247.328	247.315	247.212	247.269	7
8	247.359	247.363	---	247.417	247.477	247.626	247.562	247.454	247.405	247.289	247.269	247.271	8
9	247.353	247.361	---	247.413	247.473	247.553	247.588	247.500	247.373	247.235	247.250	247.273	9
10	247.350	247.366	---	247.403	247.459	247.531	247.571	247.458	247.310	247.151	247.295	247.276	10
11	247.357	247.367	---	247.396	247.484	247.474	247.578	247.378	247.400	247.243	247.384	247.282	11
12	247.357	247.363	---	247.392	247.459	247.504	247.527	247.367	247.378	247.222	247.287	247.284	12
13	247.356	247.356	---	247.393	247.465	247.524	247.460	247.325	247.403	247.249	247.227	247.283	13
14	247.352	247.348	---	247.397	247.455	247.619	247.482	247.427	247.331	247.282	247.268	247.279	14
15	247.351	247.364	---	247.399	247.450	247.521	247.515	247.400	247.475	247.266	247.263	247.278	15
16	247.353	247.360	---	247.396	247.533	247.543	247.513	247.518	247.352	247.341	247.242	247.279	16
17	247.353	247.363	---	247.395	247.681	247.560	247.549	247.536	247.219	247.380	247.246	247.284	17
18	247.355	247.356	---	247.392	247.519	247.542	247.527	247.523	247.307	247.254	247.254	247.289	18
19	247.353	247.355	---	247.394	247.489	247.550	247.540	247.407	247.332	247.174	247.255	247.291	19
20	247.351	247.353	---	247.403	247.485	247.604	247.556	247.391	247.309	247.261	247.273	247.289	20
21	247.348	247.353	---	247.402	247.476	247.611	247.560	247.359	247.473	247.234	247.164	247.284	21
22	247.347	247.355A	---	247.407	247.489	247.670	247.526	247.329	247.501	247.267	247.097	247.281	22
23	247.364	---	---	247.407	247.519	247.562	247.491	247.344	247.290	247.251	247.298	247.278	23
24	247.365	---	---	247.410	247.525	247.508	247.482	247.387	247.334	247.261	247.305	247.279	24
25	247.366	---	---	247.421	247.520	247.530	247.494	247.437	247.346	247.189	247.285	247.272	25
26	247.360	---	---	247.428	247.520	247.547	247.464	247.447	247.352	247.220	247.293	247.275	26
27	247.362	---	---	247.436	247.511	247.507	247.406	247.412	247.390	247.343	247.284	247.274	27
28	247.376	---	---	247.447	247.553	247.553	247.442	247.379	247.389	247.192	247.280A	247.274	28
29	247.359		---	247.442	247.528	247.538	247.552	247.383	247.344	247.253	247.279E	247.277	29
30	247.359		---	247.440	247.485	247.529	247.471	247.384	247.270	247.248	247.278E	247.274	30
31	247.367		---		247.428		247.452	247.307		247.241		247.277	31
MEAN	247.354	---	---	247.421	247.490	247.563	247.522	247.419	247.363	247.266	247.270	247.278	MEAN
MAX	247.376	---	---	247.473	247.681	247.918	247.627	247.536	247.501	247.389	247.384	247.291	MAX
MIN	247.341	---	---	247.392	247.428	247.474	247.408	247.307	247.219	247.151	247.097	247.269	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 247.918 ON JUN 02
MINIMUM DAILY, 247.097 ON NOV 22
MAXIMUM INSTANTANEOUS,
248.131 AT 23:42 CST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 15 N
LONG 098 34 50 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1934
DRAINAGE AREA,
79 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1935 ADJ.)

LAKE MINNEWASTA NEAR MORDEN - STATION NO. 05OC027

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	325.616	325.409	325.206	328.616	329.317	329.208	329.569	329.422	329.077	328.779	328.542	328.358	1
2	325.613	325.402	325.192	328.880	329.316	329.213	329.570	329.416	329.072	328.771	328.533	328.345	2
3	325.604	325.399	325.181	329.011	329.324	329.233	329.622	329.405	329.067	328.762	328.523	328.352	3
4	325.594	325.397	325.171	329.095	329.341	329.244	329.664	329.384	329.050	328.745	328.514	328.354	4
5	325.589	325.391	325.160	329.135	329.344	329.255	329.669	329.372	329.043	328.737	328.512	328.355	5
6	325.586	325.384	325.151	329.155	329.352	329.258	329.670	329.360	329.029	328.721	328.496	328.348	6
7	325.585	325.376	325.149	329.175	329.347	329.254	329.687	329.347	329.013	328.712	328.494	328.347	7
8	325.579	325.368	325.145	329.186	329.332	329.262	329.688	329.331	329.006	328.703	328.491	328.346	8
9	325.567	325.357	325.144	329.208	329.325	329.271	329.690	329.310	328.992	328.695	328.483	328.342	9
10	325.566	325.344	325.145	329.217	329.324	329.276	329.681	329.286	328.983	328.689	328.472	328.329	10
11	325.561	325.341	325.152	329.224	329.320	329.286	329.672	329.272	328.980	328.677	328.466	328.329	11
12	325.551	325.336	325.184	329.234	329.310	329.363	329.661	329.271	328.953	328.664	328.459	328.328	12
13	325.545	325.317	325.549	329.245	329.304	329.460	329.652	329.269	328.946	328.663	328.457	328.320	13
14	325.544	325.309	325.944	329.266	329.303	329.507	329.643	329.262	328.927	328.657	328.460	328.320	14
15	325.539	325.300	326.135	329.284	329.294	329.520	329.627	329.253	328.913	328.648	328.448	328.314	15
16	325.533	325.290	326.210	329.289	329.297	329.530	329.611	329.244	328.898	328.638	328.443	328.310	16
17	325.527	325.284	326.229	329.297	329.295	329.538	329.599	329.231	328.891	328.625	328.438	328.295	17
18	325.517	325.281	326.232	329.306	329.300	329.542	329.581	329.227	328.897	328.620	328.434	328.286	18
19	325.509	325.275	326.240	329.311	329.301	329.551	329.574	329.214	328.892	328.615	328.425	328.278	19
20	325.501	325.273	326.240	329.313	329.302	329.576	329.560	329.200	328.880	328.609	328.420	328.275	20
21	325.501	325.272	326.240	329.320	329.297	329.588	329.542	329.190	328.864	328.604	328.424	328.274	21
22	325.494	325.261	326.216	329.317	329.299	329.596	329.535	329.178	328.854	328.604	328.414	328.271	22
23	325.485	325.249	326.230	329.325	329.291	329.609	329.532	329.170	328.846	328.591	328.400	328.265	23
24	325.476	325.235	326.231	329.319	329.284	329.612	329.520	329.156	328.842	328.585	328.396	328.259	24
25	325.464	325.226	326.222	329.315	329.274	329.614	329.504	329.154	328.831	328.581	328.387	328.254	25
26	325.460	325.224	326.219	329.305	329.266	329.607	329.496	329.143	328.818	328.584	328.387	328.251	26
27	325.449	325.219	326.217	329.293	329.261	329.598	329.492	329.138	328.803	328.571	328.380	328.249	27
28	325.441	325.215	326.214	329.316	329.252	329.591	329.474	329.130	328.789	328.564	328.381	328.245	28
29	325.433		326.218	329.322	329.234	329.586	329.458	329.120	328.786	328.563	328.385	328.235	29
30	325.420		326.398	329.319	329.226	329.576	329.445	329.113	328.782	328.557	328.378	328.231	30
31	325.415		327.929		329.217		329.435	329.101		328.553		328.228	31
MEAN	325.525	325.312	325.842	329.220	329.298	329.444	329.585	329.247	328.924	328.648	328.448	328.300	MEAN
MAX	325.616	325.409	327.929	329.325	329.352	329.614	329.690	329.422	329.077	328.779	328.542	328.358	MAX
MIN	325.415	325.215	325.144	328.616	329.217	329.208	329.435	329.101	328.782	328.553	328.378	328.228	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 328.163
MAXIMUM DAILY, 329.690 ON JUL 09
MINIMUM DAILY, 325.144 ON MAR 09
MAXIMUM INSTANTANEOUS,
329.693 AT 16:49 CST ON JUL 09

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 10 55 N
LONG 098 08 04 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
131 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE OF THE PRAIRIES NEAR SHELLMOUTH - STATION NO. 05MD009

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	426.226	426.039	425.607	424.854	428.039	428.992	428.737	428.201	427.704	427.484	427.206	426.914	1
2	426.220	426.025	425.592	424.830A	428.119	429.012	428.728	428.170	427.684	427.449A	427.199	426.902	2
3	426.215	426.013	425.576	424.760E	428.175	429.000	428.714	428.166	427.699	427.447A	427.183	426.892	3
4	426.212	425.996	425.561	424.709A	428.248	428.974	428.662	428.151	427.697	427.456	427.151	426.883	4
5	426.205	425.980	425.544	424.704E	428.319	428.995	428.655	428.118	427.679	427.434	427.157	426.869	5
6	426.194	425.971	425.527	424.707A	428.375	429.003	428.629	428.084	427.678	427.435	427.145	426.867	6
7	426.192	425.953	425.506	424.715E	428.416	429.001	428.613	428.049	427.659	427.405	427.112	426.862	7
8	426.188	425.935	425.485	424.728E	428.458	429.017	428.622	428.044	427.664	427.395	427.121	426.846	8
9	426.177	425.920	425.466	424.744A	428.491	429.006	428.609	428.012	427.647	427.387	427.119	426.842	9
10	426.169	425.910	425.453	424.762E	428.513	428.985	428.603	427.974	427.626	427.382	427.108	426.840	10
11	426.164	425.890	425.442	424.800E	428.542	428.995	428.596	427.960	427.632	427.393	427.094	426.841	11
12	426.161	425.901	425.426	424.887A	428.560	428.975	428.575	427.942	427.608	427.341	427.085	426.837	12
13	426.153	425.860	425.428	424.970E	428.584	428.974	428.547	427.946	427.604	427.358	427.070	426.826	13
14	426.151	425.833	425.416	425.070E	428.606	428.956	428.557	427.921	427.587	427.368	427.065	426.819	14
15	426.149	425.824	425.406	425.200E	428.627	428.926	428.548	427.858	427.576	427.372	427.048	426.810	15
16	426.137	425.807	425.382	425.337A	428.698	428.918	428.505	427.848	427.556	427.362	427.035	426.802	16
17	426.127	425.795	425.358	425.478	428.725	428.915	428.512	427.826	427.542	427.360	427.025	426.796	17
18	426.122	425.775	425.333	425.662	428.723	428.902	428.484	427.808	427.559	427.334	427.023	426.792	18
19	426.118	425.756	425.313	425.968	428.745	428.908	428.464	427.789	427.545	427.335	427.013	426.786	19
20	426.111	425.751	425.286	426.324	428.777	428.909	428.458	427.779	427.547	427.348	427.007	426.774	20
21	426.109	425.721	425.263	426.622	428.807	428.896	428.418	427.764	427.527	427.318	427.002	426.766	21
22	426.104	425.709	425.220	426.760E	428.842	428.864	428.411	427.759	427.539	427.312	426.990	426.755	22
23	426.104	425.701	425.182	427.000E	428.871	428.852	428.376	427.763	427.531	427.317	426.983	426.742	23
24	426.097	425.684	425.144	427.170E	428.885	428.831	428.353	427.758	427.530	427.282	426.977	426.738	24
25	426.092	425.666	425.106	427.348A	428.907	428.820	428.329	427.752	427.521	427.267	426.967	426.725	25
26	426.087	425.654	425.069	427.500E	428.934	428.795	428.310	427.740	427.524	427.275	426.962	426.718	26
27	426.082	425.639	425.027	427.625A	428.953	428.772	428.322	427.742	427.499	427.258	426.956	426.712	27
28	426.078	425.625	424.986	427.740	428.965	428.765	428.321	427.742	427.499	427.220	426.942	426.702	28
29	426.076		424.949	427.841	428.973	428.756	428.295	427.736	427.489	427.235	426.930	426.694	29
30	426.064		424.910	427.944	428.980	428.746	428.235	427.712	427.490	427.216	426.924	426.685	30
31	426.056		424.886		428.985		428.219	427.718		427.208		426.678	31
MEAN	426.140	425.833	425.318	425.825	428.640	428.915	428.497	427.898	427.588	427.347	427.053	426.797	MEAN
MAX	426.226	426.039	425.607	427.944	428.985	429.017	428.737	428.201	427.704	427.484	427.206	426.914	MAX
MIN	426.056	425.625	424.886	424.704	428.039	428.746	428.219	427.712	427.489	427.208	426.924	426.678	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 427.163
MAXIMUM DAILY, 429.017 ON JUN 08
MINIMUM DAILY, 424.704E ON APR 05
MAXIMUM INSTANTANEOUS,
429.028 AT 17:56 CST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 58 N
LONG 101 25 21 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1969
DRAINAGE AREA,
17 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE ST. MARTIN NEAR HILBRE - STATION NO. 05LM005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	243.019	243.214	243.333	243.419	243.296	243.145E	---	---	243.194	243.033	242.910	242.881	1
2	243.028	243.219	243.334	243.418	243.291	243.156E	---	243.217A	243.146	242.996	242.904	242.881	2
3	243.029	243.225	243.337	243.419	243.282	243.165E	243.242A	---	243.203	243.017	242.909	242.885	3
4	243.037	243.230	243.342	243.421	243.274	243.177E	---	---	243.195	243.018	242.866	242.889	4
5	243.043	243.233	243.347	243.420	243.269	243.191A	243.224A	---	243.160	243.009	242.885	242.891	5
6	243.053	243.235	243.349	243.421	243.263	243.155	---	---	243.194	243.003	242.892	242.891	6
7	243.062	243.241	243.353	243.415	243.275	243.180	---	243.254A	243.129	242.988	242.874	242.893	7
8	243.076	243.247	243.356	243.414	243.282	243.178	---	---	243.106	242.985	242.883	242.895	8
9	243.077	243.251	243.356	243.413	243.281	243.159	---	243.254A	243.178	242.931	242.885	242.897	9
10	243.086	243.257	243.360	243.410	243.268	243.135	---	---	243.134	242.851	242.881	242.901	10
11	243.095	243.263	243.363	243.404	243.263	243.094	---	---	243.170	242.939	242.878	242.904	11
12	243.099	243.266	243.363	243.399	243.251	243.119	---	---	243.144	242.917	242.877	242.912	12
13	243.107	243.269	243.370	243.396	243.248	243.137	---	---	243.169	242.927	242.874	242.910	13
14	243.111	243.271	243.375	243.392	243.238	243.150	---	---	243.134	242.946	242.871	242.909	14
15	243.117	243.278	243.383	243.385	243.224	243.085	---	---	243.153	242.943	242.872	242.909	15
16	243.123	243.283	243.394	243.380	243.328	243.107	---	---	243.112	242.937	242.869	242.912	16
17	243.127	243.285	243.396	243.369	243.359	243.131	---	---	243.035	242.939	242.867	242.913	17
18	243.128	243.287	243.398	243.362	243.257	243.119	---	---	243.098	242.915	242.865	242.918	18
19	243.134	243.291	243.402	243.355	243.227	243.133	243.244A	---	243.096	242.894	242.865	242.921	19
20	243.141	243.290	243.404	243.352	243.203	243.161	---	---	243.107	242.932	242.866	242.922	20
21	243.141	243.292	243.407	243.344	243.208	243.176	---	---	243.148	242.931	242.869	242.925	21
22	243.148	243.301	243.410	243.340	243.215	243.197	---	243.244A	243.110	242.920	242.867	242.928	22
23	243.158	243.309	243.411	243.333	243.226	243.176	---	243.180	243.076	242.918	242.873	242.935	23
24	243.165	243.309	243.411	243.331	243.214	243.167	---	243.204	243.084	242.916	242.876	242.940	24
25	243.171	243.311	243.418	243.329	243.213	243.191	---	243.231	243.079	242.863	242.875	242.942	25
26	243.179	243.321	243.420	243.329	243.210	243.194	---	243.221	243.074	242.902	242.882	242.947	26
27	243.185	243.324	243.420	243.326	243.205	243.183	243.194A	243.212	243.068	242.912	242.855	242.956	27
28	243.189	243.327	243.421	243.326	243.224	243.218	---	243.201	243.055	242.827	242.874	242.960	28
29	243.199		243.419	243.323	243.190	243.221	---	243.200	243.050	242.897	242.877	242.963	29
30	243.208		243.412	243.308	243.163	243.218A	---	243.176	243.017	242.891	242.880	242.964	30
31	243.211		243.416		243.140A		---	243.164		242.891		242.968	31
MEAN	243.118	243.272	243.383	243.375	243.244	243.161	---	---	243.123	242.936	242.877	242.918	MEAN
MAX	243.211	243.327	243.421	243.421	243.329	243.221	---	---	243.203	243.033	242.910	242.968	MAX
MIN	243.019	243.214	243.333	243.308	243.140	243.085	---	---	243.017	242.827	242.855	242.881	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 243.421 ON MAR 28
MINIMUM DAILY, 242.827 ON OCT 28
MAXIMUM INSTANTANEOUS,
243.464 AT 20:38 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 30 33 N
LONG 098 31 38 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
82 300 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1964 ADJ.)

LAKE WAHTOPANAH NEAR RIVERS - STATION NO. 05MF020

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	467.279	467.101A	466.892	467.362	468.756	468.589	468.420	468.269	468.114	467.232	465.874	465.233	1
2	467.271	467.097	466.885	467.461	468.777	468.578	468.412	468.262	468.102	467.189	465.853	465.215	2
3	467.264	467.086	466.880	467.571	468.776	468.550	468.410	468.274	468.115	467.137	465.831	465.196	3
4	467.258	467.078	466.873	467.690	468.772	468.532	468.398	468.266	468.107	467.088	465.810	465.177	4
5	467.250	467.073	466.867	467.797	468.770	468.524	468.386	468.256	468.098	467.045	465.790	465.153	5
6	467.243	467.062	466.859	467.917	468.761	468.510	468.384	468.252	468.094	466.994	465.765	465.130	6
7	467.237	467.057	466.851	468.034	468.748	468.501	468.381	468.239	468.081	466.946	465.742	465.109	7
8	467.232	467.052	466.846	468.143	468.719	468.516	468.383	468.231	468.072	466.900	465.721	465.087	8
9	467.225	467.046	466.840	468.233	468.685	468.508	468.379	468.223	468.062	466.849	465.696	465.066	9
10	467.221	467.039	466.834	468.301	468.656	468.491	468.374	468.215	468.047	466.797	465.672	465.047	10
11	467.217	467.033	466.831	468.332	468.627	468.487	468.370	468.213	468.039	466.750	465.649	465.035	11
12	467.213	467.031	466.834	468.350	468.597	468.480	468.368	468.208	468.015	466.706	465.628	465.026	12
13	467.207	467.018	466.860	468.365	468.584	468.472	468.364	468.203	467.926	466.658	465.608	465.008	13
14	467.201	467.013	466.902	468.383	468.572	468.468	468.375	468.198	467.832	466.607	465.587	464.991	14
15	467.195	467.003	466.924	468.392	468.565	468.463	468.350	468.193	467.792	466.557	465.566	464.972	15
16	467.188	466.997	466.932	468.395	468.601	468.461	468.341	468.195	467.759	466.509	465.543	464.953	16
17	467.186	466.986E	466.933	468.395	468.600	468.455	468.339	468.185	467.724	466.457	465.525	464.934	17
18	467.180	466.975	466.934	468.396	468.596	468.455	468.335	468.176	467.698	466.407	465.500	464.917	18
19	467.175	466.970	466.940	468.402	468.591	468.467	468.331	468.184	467.668	466.354	465.479	464.898	19
20	467.169	466.951A	466.947	468.418	468.584	468.468	468.324	468.184	467.637	466.300	465.459	464.879	20
21	467.163	466.945	466.958	468.446	468.584	468.461	468.315	468.177	467.613	466.246	465.438	464.858	21
22	467.157	466.939	466.963	468.487	468.603	468.454	468.310	468.173	467.582	466.193	465.416	464.839	22
23	467.155	466.936	466.964	468.537	468.638	468.452	468.303	468.176	467.545	466.137	465.394	464.815	23
24	467.146	466.930	466.960	468.563	468.674	468.453	468.299	468.171	467.520	466.082	465.372	464.792	24
25	467.142	466.923	466.970	468.583	468.691	468.460	468.293	468.167	467.487	466.030	465.350	464.770	25
26	467.136	466.915	466.970	468.605	468.683	468.462	468.286	468.164	467.447	465.988	465.331	464.748	26
27	467.128	466.907	466.971	468.598	468.662	468.462	468.287	468.162	467.397	465.961	465.312	464.727	27
28	467.123	466.900	466.972	468.600	468.645	468.459	468.284	468.158	467.357	465.947	465.291	464.694	28
29	467.119		466.984	468.666	468.624	468.449	468.280	468.149	467.323	465.927	465.275	464.668	29
30	467.112		467.052	468.724	468.610	468.434	468.277	468.140	467.278	465.910	465.254	464.646	30
31	467.106		467.226		468.597		468.273	468.122		465.894		464.618	31
MEAN	467.190	467.002	466.925	468.272	468.656	468.484	468.343	468.200	467.784	466.510	465.558	464.942	MEAN
MAX	467.279	467.101	467.226	468.724	468.777	468.589	468.420	468.274	468.115	467.232	465.874	465.233	MAX
MIN	467.106	466.900	466.831	467.362	468.565	468.434	468.273	468.122	467.278	465.894	465.254	464.618	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 467.323
MAXIMUM DAILY, 468.777 ON MAY 02
MINIMUM DAILY, 464.618 ON DEC 31
MAXIMUM INSTANTANEOUS,
468.779 AT 00:51 CST ON MAY 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 37 N
LONG 100 11 58 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
3 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "RIVERS RESERVOIR NEAR RIVERS"

LAKE WINNIPEG AT BERENS RIVER - STATION NO. 05RD005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.002	216.977	216.990	217.018	217.113	217.301	217.497	217.613	217.614	217.476	217.284	217.177	1
2	217.006	216.976	216.990	217.021	217.113	217.204	217.477	217.628	217.538	217.336	217.388	217.152	2
3	217.016	216.982	216.987	217.028	217.110	217.246	217.436	217.666	217.639	217.525	217.389	217.143	3
4	217.001	216.988	216.984	217.036	217.126	217.276	217.462	217.594	217.608	217.683	217.225	217.031	4
5	216.997	216.975	216.978	217.029	217.120	217.328	217.495	217.631	217.607	217.486	217.325	217.215	5
6	216.990	216.977	216.970	217.009	217.138	217.306	217.481	217.609	217.585	217.493	217.384	217.138	6
7	216.994	216.989	216.973	217.018	217.141	217.301	217.530	217.624	217.578	217.448	217.215	217.138	7
8	217.003	216.977	216.972	217.018	217.165	217.305	217.530	217.659	217.632	217.429	217.293	217.134	8
9	216.993	216.983	216.978	217.018	217.157	217.330	217.542	217.614	217.590	217.389	217.409	217.169	9
10	217.013	216.977	216.980	217.020	217.170	217.321	217.523	217.602	217.555	217.385	217.344	217.121	10
11	217.022	216.971	216.983	217.018	217.167	217.328	217.526	217.637	217.617	217.644	217.378	217.121	11
12	217.007	216.995	216.992	217.018	217.180	217.356	217.544	217.629	217.612	217.562	217.229	217.134	12
13	216.998	216.978	216.999	217.018	217.170	217.624	217.557	217.682	217.555	217.414	217.151	217.112	13
14	217.004	216.974	216.995	217.019	217.174	217.338	217.578	217.644	217.551	217.404	217.258	217.114	14
15	216.998	216.985	217.016	217.029	217.176	217.385	217.564	217.610	217.556	217.466	217.227	217.104	15
16	216.998	216.981	217.035	217.030	217.194	217.365	217.566	217.612	217.488	217.411	217.212	217.115	16
17	216.996	216.979	217.023	217.024	217.178	217.381	217.611	217.584	217.455	217.334	217.203	217.105	17
18	216.991	216.985	217.013	217.014	217.209	217.381	217.613	217.595	217.555	217.292	217.228	217.101	18
19	216.993	216.981	217.010	217.033	217.219	217.393	217.618	217.573	217.526	217.345	217.150	217.103	19
20	216.981	216.979	217.011	217.034	217.221	217.411	217.612	217.580	217.468	217.369	217.184	217.093	20
21	216.986	216.983	217.008	217.044	217.228	217.420	217.574	217.598	217.521	217.342	217.248	217.094	21
22	216.985	216.985	217.011	217.036	217.232	217.415	217.598	217.568	217.463	217.282	217.450	217.089	22
23	216.983	216.983	217.006	217.046	217.237	217.417	217.599	217.616	217.503	217.359	217.411	217.098	23
24	216.989	216.984	217.005	217.067	217.241	217.433	217.603	217.610	217.503	217.298	217.205	217.097	24
25	216.977	216.963	217.017	217.081	217.250	217.456	217.610	217.620	217.511	217.296	217.194	217.087	25
26	216.975	216.980	217.015	217.099	217.250	217.423	217.588	217.601	217.563	217.386	217.181	217.079	26
27	216.979	216.982	217.018	217.093	217.243	217.405	217.574	217.642	217.513	217.418	217.179	217.073	27
28	216.973	216.978	217.017	217.104	217.242	217.483	217.699	217.625	217.458	217.350	217.178	217.098	28
29	216.993		217.017	217.103	217.256	217.464	217.615	217.624	217.450	217.338	217.150	217.086	29
30	216.977		217.028	217.110	217.263	217.463	217.643	217.602	217.455	217.281	217.209	217.074	30
31	216.980		217.044		217.269		217.627	217.673		217.282		217.079	31
MEAN	216.994	216.980	217.002	217.042	217.192	217.369	217.564	217.616	217.539	217.388	217.263	217.112	MEAN
MAX	217.022	216.995	217.044	217.110	217.269	217.483	217.699	217.682	217.652	217.683	217.450	217.215	MAX
MIN	216.973	216.963	216.970	217.009	217.110	217.204	217.436	217.535	217.430	217.150	217.150	217.031	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 217.257
MAXIMUM DAILY, 217.699 ON JUL 28
MINIMUM DAILY, 216.963 ON FEB 25
MAXIMUM INSTANTANEOUS,
217.933 AT 00:20 CST ON SEP 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 21 20 N
LONG 097 00 15 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1975

DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)
APPLY .043 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1976 ADJ.)

LAKE WINNIPEG AT GEORGE ISLAND - STATION NO. 05RE003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.022	216.975	217.004	217.004	217.092	217.264	217.483	217.712	217.649	217.438	217.236	217.151	1
2	217.008	216.976	216.988	217.005	217.091	217.198	217.444	217.746	217.605	217.406	217.218	217.135	2
3	217.015	216.987	216.984	217.021	217.099	217.184	217.433	217.684	217.630	217.468	217.236	217.132	3
4	217.007	216.996	216.976	217.011	217.106	217.262	217.468	217.564	217.577	217.424	217.218	217.127	4
5	217.003	216.986	216.978	217.009	217.103	217.305	217.465	217.601	217.626	217.399	217.190	217.171	5
6	217.005	216.999	216.980	217.006	217.120	217.286	217.504	217.602	217.628	217.395	217.216	217.134	6
7	217.009	216.988	216.985	217.017	217.113	217.295	217.519	217.617	217.621	217.377	217.320	217.139	7
8	217.003	216.987	216.981	217.011	217.132	217.295	217.512	217.633	217.583	217.386	217.289	217.135	8
9	217.004	216.993	216.991	217.012	217.135	217.317	217.501	217.594	217.557	217.412	217.284	217.142	9
10	217.017	216.984	216.982	217.015	217.152	217.313	217.498	217.561	217.534	217.570	217.222	217.115	10
11	217.013	216.981	216.976	217.020	217.143	217.369	217.510	217.591	217.570	217.491	217.208	217.119	11
12	217.010	217.002	216.974	217.022	217.156	217.338	217.528	217.589	217.499	217.354	217.210	217.113	12
13	217.004	216.984	216.984	217.014	217.148	217.365	217.550	217.668	217.678	217.410	217.299	217.108	13
14	217.002	216.989	216.978	217.017	217.156	217.310	217.552	217.601	217.637	217.359	217.299	217.120	14
15	217.003	216.982	216.989	217.027	217.157	217.373	217.529	217.601	217.476	217.349	217.237	217.109	15
16	217.003	216.976	217.014	217.022	217.174	217.351	217.539	217.574	217.470	217.345	217.219	217.117	16
17	216.994	216.987	217.022	217.027	217.140	217.342	217.578	217.547	217.661	217.315	217.218	217.090	17
18	216.991	216.994	217.014	217.027	217.179	217.364	217.556	217.554	217.585	217.319	217.219	217.083	18
19	216.993	216.999	217.018	217.038	217.203	217.374	217.561	217.585	217.594	217.394	217.192	217.081	19
20	216.984	217.007	217.006	217.021	217.209	217.377	217.553	217.581	217.519	217.336	217.217	217.075	20
21	216.999	217.006	217.005	217.035	217.212	217.390	217.557	217.587	217.448	217.302	217.242	217.080	21
22	216.991	216.995	217.012	217.028	217.214	217.378	217.576	217.625	217.404	217.306	217.321	217.076	22
23	216.985	216.988	217.016	217.041	217.211	217.397	217.570	217.708	217.486	217.317	217.208A	217.095	23
24	216.985	216.990	217.026	217.041	217.221	217.421	217.579	217.664	217.492	217.319	217.140	217.085	24
25	216.984	216.989	217.012	217.047	217.225	217.421	217.569	217.646	217.469	217.288	217.168	217.085	25
26	216.993	216.999	217.009	217.059	217.229	217.403	217.589	217.604	217.492	217.282	217.165	217.079	26
27	216.983	216.992	217.007	217.055	217.231	217.443	217.614	217.597	217.427	217.219	217.153	217.086	27
28	216.975	216.993	217.008	217.067	217.231	217.549	217.638	217.576	217.442	217.206	217.160	217.097	28
29	216.980		217.015	217.087	217.239	217.440	217.556	217.592	217.440	217.210	217.158	217.086	29
30	216.967		217.022	217.084	217.244	217.448	217.578	217.594	217.490	217.298	217.177	217.082	30
31	216.979		217.019		217.251		217.610	217.692		217.299		217.082	31
MEAN	216.997	216.990	216.999	217.030	217.172	217.352	217.539	217.616	217.541	217.355	217.222	217.107	MEAN
MAX	217.022	217.007	217.022	217.087	217.251	217.549	217.638	217.746	217.678	217.570	217.321	217.171	MAX
MIN	216.967	216.975	216.974	217.004	217.091	217.184	217.433	217.547	217.404	217.206	217.148	217.075	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 217.245
MAXIMUM DAILY, 217.746 ON AUG 02
MINIMUM DAILY, 216.967 ON JAN 30
MAXIMUM INSTANTANEOUS,
217.920 AT 01:28 CST ON AUG 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 49 00 N
LONG 097 37 20 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)
APPLY .043 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1976 ADJ.)

LAKE WINNIPEG AT GIMLI - STATION NO. 05SB006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.995	217.004	216.969	217.069	217.115	217.169	217.315	217.451	217.756	217.494	217.406	217.188	1
2	217.043	216.990	217.009	217.015	217.143	217.696	217.552	217.544	217.472	217.389	217.376	217.176	2
3	217.039	217.003	216.989	216.991	217.114	217.772	217.609	217.745	217.496	217.397	217.504	217.181	3
4	217.014	216.983	217.013	217.067	217.146	217.322	217.563	217.875	217.770	217.685	217.185	217.116	4
5	217.009	217.009	216.978	217.038	217.148	217.158	217.592	217.592	217.433	217.714	217.054	217.073	5
6	216.989	216.935	216.968	217.029	217.129	217.352	217.443	217.571	217.721	217.633	217.431	217.168	6
7	217.020	217.004	216.942	217.012	217.251	217.298	217.443	217.451	217.530	217.528	217.179	217.140	7
8	217.054	216.993	216.963	217.037	217.214	217.435	217.609	217.585	217.558	217.384	217.020	217.120	8
9	217.016	216.990	216.921	217.053	217.217	217.336	217.659	217.815	217.657	217.271	217.346	217.153	9
10	216.999	216.981	216.964	217.042	217.136	217.322	217.621	217.701	217.561	216.849	217.591	217.144	10
11	217.073	216.997	216.989	217.031	217.239	217.146	217.614	217.546	217.488	217.129	217.634	217.145	11
12	217.014	216.977	217.015	217.025	217.164	217.300	217.544	217.615	217.653	217.474	217.421	217.178	12
13	217.007	217.008	216.993	217.059	217.232	217.325	217.429	217.373	217.499	217.211	216.907	217.124	13
14	217.038	216.947	217.008	217.048	217.173	217.607	217.423	217.759	217.616	217.429	217.007	217.092	14
15	217.008	217.019	217.065	217.035	217.180	217.296	217.635	217.598	217.833	217.533	217.214	217.120	15
16	217.003	217.041	217.093	217.069	217.243	217.346	217.549	217.709	217.599	217.478	217.205	217.106	16
17	217.031	216.995	217.029	217.024	217.516	217.429	217.572	217.797	217.163	217.505	217.041	217.139	17
18	217.004	217.005	217.030	217.019	217.297	217.392	217.675	217.688	217.525	217.361	217.207	217.150	18
19	217.012	216.975	216.979	217.014	217.184	217.366	217.671	217.541	217.679	217.043	217.128	217.161	19
20	217.006	216.955	217.058	217.082	217.205	217.441	217.65*	217.604	217.478	217.332	217.100	217.178A	20
21	216.964	216.991	217.041	217.041	217.224	217.498	217.720	217.507	217.689	217.417	217.178	217.177E	21
22	217.003	217.012	217.035	217.082	217.216	217.546	217.581	217.458	217.955	217.261	217.248	217.115E	22
23	217.004	217.040	217.005	217.057	217.278	217.473	217.508	217.473	217.461	217.323	217.675	217.085E	23
24	217.018	217.006	216.986	217.110	217.255	217.351	217.521	217.686	217.465	217.412	217.482	217.124E	24
25	216.985	216.978	217.042	217.121	217.262	217.418	217.655	217.791	217.577	217.044	217.271	217.100E	25
26	216.962	217.002	217.025	217.130	217.274	217.541	217.569	217.710	217.496	217.138	217.194	217.082E	26
27	217.011	217.000	217.046	217.138	217.278	217.387	217.402	217.643	217.724	217.738	217.212	217.069E	27
28	216.998	216.976	217.032	217.145	217.350	217.482	217.478	217.684	217.565	217.388	217.185	217.121E	28
29	217.024		216.998	217.089	217.281	217.583	217.915	217.590	217.480	217.174	217.145	217.100E	29
30	217.052		216.984	217.138	217.247	217.511	217.669	217.611	217.240	217.329	217.164	217.077E	30
31	216.984		217.031		217.190		217.546	217.439		217.208		217.100E	31
MEAN	217.012	216.993	217.006	217.060	217.222	217.410	217.572	217.618	217.565	217.364	217.264	217.129	MEAN
MAX	217.073	217.041	217.093	217.145	217.516	217.772	217.915	217.872	217.955	217.738	217.675	217.188	MAX
MIN	216.962	216.935	216.921	216.991	217.114	217.146	217.315	217.373	217.163	216.849	216.907	217.069	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 217.270
MAXIMUM DAILY, 217.955 ON SEP 22
MINIMUM DAILY, 216.849 ON OCT 10
MAXIMUM INSTANTANEOUS,
218.099 AT 05:27 CST ON SEP 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 37 50 N
LONG 096 58 58 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1975
DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)
APPLY .043 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1968 ADJ.)

LAKE WINNIPEG AT MATHESON ISLAND LANDING - STATION NO. 05SD002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.011	216.989	216.999	217.038	217.098	217.292	217.426	217.560	217.668	217.498	217.347	217.187	1
2	217.026	216.989	216.998	217.010	217.108	217.326	217.506	217.609	217.460	217.332	217.361	217.159	2
3	217.028	216.996	216.992	217.014	217.097	217.382	217.482	217.709	217.608	217.496	217.499	217.153	3
4	217.014	217.004	216.993	217.042	217.119	217.262	217.500	217.681	217.659	217.729	217.303	217.089	4
5	217.010	216.996	216.981	217.032	217.119	217.285	217.533	217.611	217.540	217.586	217.178	217.137	5
6	217.002	216.985	216.973	217.028	217.130	217.321	217.470	217.591	217.641	217.571	217.430	217.148	6
7	217.018	217.012	216.969	217.023	217.156	217.327	217.489	217.576	217.500	217.484	217.195	217.143	7
8	217.035	216.997	216.973	217.034	217.171	217.335	217.558	217.667	217.659	217.436	217.217	217.122	8
9	217.008	216.999	216.964	217.036	217.155	217.331	217.600	217.686	217.618	217.338	217.364	217.169	9
10	217.019	216.992	216.973	217.034	217.151	217.318	217.541	217.602	217.520	217.151	217.465	217.122	10
11	217.035	216.991	216.981	217.030	217.163	217.248	217.558	217.605	217.629	217.492	217.549	217.127	11
12	217.011	217.005	216.996	217.028	217.166	217.342	217.547	217.609	217.466	217.417	217.330	217.148	12
13	217.007	217.002	216.993	217.045	217.164	217.412	217.515	217.604	217.552	217.321	217.034	217.110	13
14	217.017	216.980	216.998	217.036	217.162	217.422	217.538	217.715	217.543	217.398	217.208	217.104	14
15	217.004	217.006	217.037	217.036	217.172	217.345	217.593	217.581	217.668	217.502	217.212	217.105	15
16	217.006	217.016	217.054	217.043	217.213	217.348	217.563	217.653	217.483	217.438	217.221	217.112	16
17	217.012	216.995	217.027	217.031	217.259	217.407	217.597	217.642	217.312	217.372	217.167	217.106	17
18	217.001	217.002	217.024	217.030	217.225	217.383	217.635	217.548	217.594	217.322	217.229	217.112	18
19	217.004	216.993	217.010	217.034	217.209	217.393	217.644	217.548	217.580	217.141	217.157	217.110	19
20	217.000	216.993	217.041	217.057	217.210	217.436	217.637	217.582	217.471	217.367	217.144	217.110	20
21	216.994	217.004	217.035	217.046	217.225	217.449	217.632	217.563	217.656	217.380	217.209	217.098	21
22	217.000	217.011	217.032	217.054	217.242	217.463	217.596	217.495	217.592	217.276	217.181	217.095	22
23	217.002	217.016	217.018	217.052	217.249	217.428	217.571	217.572	217.476	217.315	217.630	217.085	23
24	217.007	217.009	217.014	217.073	217.251	217.407	217.573	217.632	217.523	217.376	217.316	217.096	24
25	216.989	216.985	217.037	217.084	217.258	217.449	217.664	217.682	217.525	217.187	217.240	217.088	25
26	216.981	217.007	217.030	217.100	217.258	217.471	217.567	217.635	217.565	217.281	217.176	217.075	26
27	216.990	217.004	217.034	217.092	217.266	217.400	217.501	217.651	217.607	217.562	217.181	217.068	27
28	216.985	216.990	217.028	217.104	217.271	217.462	217.593	217.624	217.489	217.210	217.177	217.092	28
29	217.008		217.017	217.089	217.262	217.507	217.700	217.612	217.423	217.275	217.151	217.079	29
30	217.008		217.018	217.101	217.251	217.484	217.626	217.586	217.375	217.306	217.172	217.061	30
31	216.981		217.028		217.244		217.600	217.589		217.260		217.073	31
MEAN	217.007	216.999	217.009	217.049	217.195	217.382	217.566	217.614	217.547	217.381	217.275	217.112	MEAN
MAX	217.035	217.016	217.054	217.104	217.271	217.507	217.700	217.715	217.668	217.729	217.630	217.187	MAX
MIN	216.981	216.980	216.964	217.010	217.097	217.248	217.426	217.495	217.312	217.141	217.034	217.061	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 217.263
MAXIMUM DAILY, 217.729 ON OCT 04
MINIMUM DAILY, 216.964 ON MAR 09
MAXIMUM INSTANTANEOUS,
217.926 AT 14:39 CST ON OCT 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 44 00 N
LONG 096 54 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1975
DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)
APPLY .043 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1964 ADJ.)

LAKE WINNIPEG AT MISSION POINT - STATION NO. 05SG001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.050	216.961	216.982	217.003	217.127	217.317	217.528	217.685	217.605A	---	217.322	217.213	1
2	217.018	216.981	216.965	217.033	217.128	217.231	217.473	217.639	217.671A	---	217.276	217.228	2
3	217.011	216.985	216.989	217.040	217.160	217.197	217.537A	217.554	217.619	---	217.156	217.231	3
4	217.014	216.986	216.979	217.002	217.144	217.338	217.490A	217.572	217.537	---	217.348	217.339	4
5	217.014	216.994	216.997	217.010	217.157	217.345	217.491	217.646	217.646	---	217.303	217.125	5
6	217.036	217.008	217.009	217.025	217.150	217.309	217.566	217.661	217.572A	---	217.174	217.174	6
7	217.011	216.967	217.011	217.034	217.137	217.310	217.540	217.694	217.624	---	217.302	217.179	7
8	216.995	216.984	217.009	217.033	217.152	217.295	217.494	217.608	217.537	---	217.329	217.160	8
9	217.018	216.961	217.003	217.025	217.181	217.334	217.495	217.587A	217.528	---	217.045	217.085	9
10	217.014	216.972	216.991	217.023	217.200	217.372	217.517	217.618	217.602	---	217.079	217.130	10
11	216.987	216.979	216.976	217.035	217.177	217.436	217.519	217.645	217.609A	---	217.008	217.123	11
12	217.012	216.962	216.954	217.045	217.203	217.384	217.540	217.627	217.556A	---	217.239	217.099	12
13	217.009	216.952	216.961	217.034	217.195	217.343	217.598	217.625	217.523A	---	217.479	217.141	13
14	216.994	216.984	216.970	217.039	217.219	217.320	217.585	217.531	217.512	---	217.269	217.140	14
15	217.005	216.969	216.947	217.040	217.218	217.407	217.524	217.653	217.425A	---	217.247	217.129	15
16	217.001	216.961	216.969	217.033	217.189	217.412	217.577	217.593	217.550	217.316A	217.266	217.109	16
17	216.984	216.984	217.005	217.054	217.167	217.376	217.554	217.584	217.669A	217.369	217.310	217.110	17
18	216.993	216.982	217.001	217.067	217.244	217.404	217.516	217.643A	217.410	217.440	217.226	217.101	18
19	216.983	217.003	217.034	217.057	217.264	217.417	217.535	217.645	217.419	217.561	217.329	217.092	19
20	216.992	217.026	216.987	217.048	217.269	217.389	217.552	217.623	217.577A	217.359	217.306	217.087	20
21	216.997	216.992	217.001	217.060	217.262	217.392	217.555	217.643	217.612E	217.378	217.221	217.101	21
22	216.983	216.976	216.994	217.060	217.264	217.389	217.590	217.678	217.402A	217.450	216.862	217.111	22
23	216.979	216.968	217.018	217.072	217.255	217.438	217.630	217.643	217.499	217.346	216.898	217.116	23
24	216.969	216.972	217.035	217.053	217.270	217.471	217.629	217.599	217.496	217.373	217.137	217.098	24
25	216.988	217.009	217.007	217.058	217.263	217.436	217.578	217.556	217.440	217.479	217.216	217.102	25
26	216.998	216.982	217.016	217.062	217.272	217.443	217.651	217.613	217.398A	217.342	217.255	217.119	26
27	216.961	216.980	217.023	217.063	217.275	217.507	217.707	217.597	217.400A	217.094	217.246	217.129	27
28	216.974	217.003	217.043	217.070	217.266	217.456A	217.581	217.598	217.493A	217.459	217.247	217.082	28
29	216.949		217.055	217.121	217.292	217.443	217.510	217.607	---	217.316	217.280	217.097	29
30	216.943		217.048	217.113	217.303	217.473	217.558	217.647	---	217.369	217.172	217.119	30
31	216.961		217.019		217.323		217.633	217.620A		217.408		217.104	31
MEAN	216.995	216.982	217.000	217.047	217.217	217.379	217.557	217.620	---	---	217.221	217.135	MEAN
MAX	217.050	217.026	217.055	217.121	217.323	217.507	217.707	217.694	---	---	217.479	217.339	MAX
MIN	216.943	216.952	216.947	217.002	217.127	217.197	217.473	217.531	---	---	216.862	217.082	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 217.707 ON JUL 27
MINIMUM DAILY, 216.862 ON NOV 22
MAXIMUM INSTANTANEOUS,
217.742 AT 17:34 CST ON AUG 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 11 00 N
LONG 099 13 30 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1975
DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)

LAKE WINNIPEG AT PINE DOCK - STATION NO. 05SD001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.970	216.967	216.963	217.026	217.094	217.246	217.408	217.541	217.684	217.487	217.318	217.16[illegible]	1
2	216.991	216.956	216.977	216.988	217.106	217.326	217.499	217.598	217.465	217.325	217.366	217.153	2
3	217.001	216.970	216.965	216.989	217.089	217.407	217.458	217.709	217.590	217.472	217.489	217.136	3
4	216.990	216.969	216.972	217.033	217.111	217.246	217.490	217.698	217.687	217.728	217.281	217.069	4
5	216.987	216.971	216.956	217.016	217.114	217.240	217.518	217.608	217.538	217.600	217.177	217.121	5
6	216.981	216.944	216.944	217.010	217.120A	217.299	217.425	217.584	217.650	217.575	217.411	217.143	6
7	216.994	216.985	216.927	217.001	217.152	217.305	217.489	217.567	217.523	217.480	217.190	217.125	7
8	217.005	216.966	216.935	217.013	217.166	217.313	217.553	217.654	217.639	217.414	217.211	217.153	8
9	216.991	216.974	216.932	217.023	217.157	217.306	217.594	217.716	217.630	217.322	217.415	217.153	9
10	216.971	216.967	216.949	217.018	217.139	217.287	217.532	217.626	217.540	217.140	217.460	217.130	10
11	217.011	216.968	216.956	217.012	217.164	217.210	217.549	217.613	217.606	217.422	217.558	217.127	11
12	216.985	216.977	216.974	217.011	217.155	217.315	217.536	217.629	217.488	217.401	217.312	217.137	12
13	216.979	216.979	216.973	217.032	217.166	217.379	217.491	217.587	217.520	217.306	217.050	217.139	13
14	216.996	216.950	216.975	217.023	217.153	217.409	217.525	217.739	217.553	217.395	217.176	217.108	14
15	216.979	216.984	217.022	217.023	217.155	217.315	217.589	217.595	217.675	217.492	217.214	217.098	15
16	216.973	216.994	217.057	217.037	217.187	217.319	217.548	217.661	217.496	217.428	217.205	217.109	16
17	216.987	216.966	217.020	217.017	217.252	217.386	217.600	217.671	217.292	217.361	217.169	217.115	17
18	216.975	216.976	217.008	217.009	217.204	217.355	217.634	217.569	217.535	217.300	217.205	217.110	18
19	216.981	216.968	216.976	217.017	217.170	217.362	217.637	217.553	217.584	217.117	217.125	217.120	19
20	216.971	216.950	217.015	217.044	217.172A	217.420	217.634	217.599	217.455	217.331	217.135	217.127	20
21	216.961	216.965	217.009	217.030	217.193A	217.437	217.630	217.568	217.646	217.364	217.210	217.102	21
22	216.976	216.982	217.008	217.040	217.211A	217.458	217.585	217.506	217.635	217.248	217.412	217.107	22
23	216.973	216.992	216.993	217.040	217.226A	217.406	217.551	217.571	217.470	217.315	217.630	217.080	23
24	216.988	216.984	216.982	217.067	217.218	217.376	217.559	217.650	217.503	217.349	217.374	217.099	24
25	216.961	216.951	217.014	217.082	217.222	217.446	217.660	217.706	217.518	217.160	217.242	217.092	25
26	216.950	216.977	217.003	217.098	217.226	217.445	217.560	217.652	217.537	217.260	217.172	217.076	26
27	216.974	216.978	217.013	217.091	217.235	217.369	217.454	217.661	217.616	217.573	217.169	217.057	27
28	216.964	216.958	217.003	217.103	217.250	217.464	217.602	217.644	217.478	217.220	217.175	217.084	28
29	216.993		216.982	217.076	217.227	217.496	217.717	217.515	217.414	217.264	217.159	217.084	29
30	216.991		216.984	217.099	217.219	217.455	217.627	217.596	217.342	217.287	217.150	217.061	30
31	216.957		217.010		217.203		217.589	217.580		217.230		217.072	31
MEAN	216.981	216.970	216.984	217.036	217.176	217.360	217.556	217.622	217.544	217.367	217.272	217.111	MEAN
MAX	217.011	216.994	217.057	217.103	217.252	217.496	217.717	217.739	217.687	217.728	217.630	217.189	MAX
MIN	216.950	216.944	216.927	216.988	217.089	217.210	217.408	217.506	217.292	217.117	217.050	217.057	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 217.250
MAXIMUM DAILY, 217.739 ON AUG 14
MINIMUM DAILY, 216.927 ON MAR 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 38 30 N
LONG 096 47 45 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1975
DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)
APPLY .024 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1964 ADJ.)

LAKE WINNIPEG AT VICTORIA BEACH - STATION NO. 05BA003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.032	217.035	216.994	217.104	217.142	217.199	217.342	217.496	217.783	217.510	217.426	217.206	1
2	217.074	217.011	217.041	217.067	217.164	217.633	217.558	217.577	217.488	217.388	217.446	217.185	2
3	217.077	217.030	217.016	217.023	217.135	217.778	217.603	217.776	217.487	217.446	217.598	217.190	3
4	217.055	217.015	217.039	217.103	217.164	217.351	217.588	217.918	217.791	217.786	217.413	217.130	4
5	217.044	217.043	217.013	217.090	217.172	217.201	217.632	217.635	217.464	217.743	217.074	217.081	5
6	217.019	216.971	216.999	217.077	217.148	217.389	217.458	217.603	217.714	217.689	217.483	217.183	6
7	217.057	217.034	216.972	217.047	217.243	217.333	217.469	217.497	217.585	217.573	217.252	217.150	7
8	217.085	217.028	216.988	217.074	217.239	217.446	217.666	217.618	217.556	217.405	217.051	217.133	8
9	217.060	217.027	216.965	217.087	217.247	217.367	217.697	217.847	217.686	217.304	217.418	217.161	9
10	217.020	217.014	216.980	217.083	217.161	217.346	217.654	217.732	217.591	216.897	217.654	217.164	10
11	217.107	217.028	217.016	217.063	217.267	217.166	217.642	217.593	217.497	217.162	217.695	217.156	11
12	217.049	217.010	217.059	217.059	217.197	217.328	217.594	217.662	217.641	217.503	217.459	217.191	12
13	217.023	217.045	217.041	217.087	217.259	217.360	217.488	217.438	217.514	217.225	216.960	217.142	13
14	217.066	216.989	217.030	217.088	217.210	217.632	217.465	217.795	217.645	217.452	217.014	217.104	14
15	217.034	217.038	217.115	217.072	217.207	217.325	217.683	217.623	217.832	217.570	217.232	217.132	15
16	217.021	217.085	217.138	217.103	217.270	217.366	217.593	217.698	217.612	217.482	217.240	217.116	16
17	217.063	217.030	217.068	217.068	217.568	217.448	217.608	217.789	217.200	217.498	217.081	217.155	17
18	217.027	217.042	217.063	217.061	217.337	217.422	217.736	217.668	217.346	217.367	217.232	217.160	18
19	217.040	217.014	217.016	217.041	217.312	217.392	217.717	217.545	217.703	217.031	217.147	217.178	19
20	217.045	216.988	217.082	217.124	217.233	217.481	217.698	217.628	217.490	217.344	217.107	217.194	20
21	216.997	217.019	217.082	217.079	217.249	217.530	217.764	217.526	217.757	217.449	217.249	217.192	21
22	217.035	217.045	217.071	217.115	217.245	217.573	217.627	217.483	217.968	217.257	217.345	217.170	22
23	217.028	217.070	217.045	217.089	217.306	217.496	217.552	217.481	217.512	217.340	217.713	217.091	23
24	217.064	217.047	217.018	217.140	217.279	217.376	217.563	217.691	217.485	217.434	217.511	217.138	24
25	217.016	217.015	217.058	217.149	217.287	217.450	217.692	217.797	217.601	217.068	217.294	217.117	25
26	216.992	217.015	217.060	217.161	217.300	217.559	217.610	217.722	217.515	217.158	217.209	217.096	26
27	217.039	217.044	217.073	217.167	217.304	217.402	217.431	217.668	217.758	217.774	217.232	217.075	27
28	217.022	217.003	217.069	217.174	217.365	217.492	217.520	217.719	217.577	217.410	217.201	217.134	28
29	217.056		217.031	217.113	217.303	217.600	217.952	217.607	217.492	217.192	217.159	217.125	29
30	217.094		217.022	217.159	217.270	217.529	217.734	217.619	217.265	217.340	217.173	217.080	30
31	217.012		217.060		217.219		217.593	217.480		217.213		217.110	31
MEAN	217.044	217.026	217.039	217.096	217.248	217.432	217.611	217.643	217.584	217.388	217.302	217.143	MEAN
MAX	217.107	217.085	217.138	217.174	217.568	217.778	217.952	217.918	217.968	217.786	217.713	217.206	MAX
MIN	216.992	216.971	216.965	217.023	217.135	217.166	217.342	217.438	217.200	216.897	216.960	217.075	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 217.298
MAXIMUM DAILY, 217.968 ON SEP 22
MINIMUM DAILY, 216.897 ON OCT 10
MAXIMUM INSTANTANEOUS,
218.102 AT 06:10 CST ON SEP 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 42 30 N
LONG 096 34 10 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1975
DRAINAGE AREA,
978 000 km²

WATER LEVELS ARE REFERRED TO LAKE WINNIPEG DATUM (1986)
APPLY .043 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1962 ADJ.)

LAKE WINNIPEGOSIS AT DAWSON BAY - STATION NO. 05LD002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	252.677	252.693	252.698	252.750	252.871	253.046	253.125	253.066	---	252.700E	252.662	252.700	1
2	252.661	252.707	252.694	252.767	252.878	252.955	253.104	252.982	---	253.024A	252.628	252.704	2
3	252.663	252.697	252.706	252.750	252.893	253.003	253.202	252.900	---	252.659	252.535	252.709	3
4	252.666	252.690	252.709	252.740	252.888	253.120	253.138	252.986	---	252.496	252.779	252.729	4
5	252.671	252.701	252.715	252.744	252.904	253.035	253.096	253.026	---	252.707	252.649	252.694	5
6	252.680	252.706	252.720	252.756	252.893	253.047	253.163	253.046	---	252.633	252.518	252.707	6
7	252.675	252.689	252.719	252.750	252.895	253.073	253.097	253.053	---	252.747	252.781	252.709	7
8	252.665	252.699	252.717	252.755	252.923	253.050	253.052	252.886	---	252.793	252.717	252.709	8
9	252.688	252.685	252.715A	252.750	252.953	253.069	253.080	252.865	---	252.834	252.589	252.696	9
10	252.676	252.694	252.708	252.752	252.949	253.118	253.151	252.940	---	252.822	252.554	252.708	10
11	252.670	252.697	252.706	252.756	252.955	253.114	253.098	252.939	---	252.532	252.619	252.702	11
12	252.689	252.684	252.692	252.760	252.960	253.095	253.126	252.919	---	252.809	252.706	252.692	12
13	252.685	252.696	252.697	252.754	252.965	253.021	253.166	252.884	252.763A	252.774	252.719	252.726	13
14	252.678	252.709	252.707	252.761	252.974	253.051	253.055	252.801	252.857	252.721	252.704	252.721	14
15	252.688	252.691	252.695	252.763	252.973	253.089	253.015	252.926	252.778	252.681	252.711	252.718	15
16	252.684	252.694	252.723	252.769	252.964	253.105	253.068	252.871	252.936	252.678	252.709	252.704	16
17	252.683	252.704	252.737	252.778	252.997	253.051	252.978	252.877	253.012	252.712	252.704	252.714	17
18	252.685	252.699	252.742	252.792	253.029	253.092	252.980	252.949	252.748	252.872	252.697	252.700	18
19	252.681	252.711	252.756	252.780	253.021	253.059	252.975	252.909	252.821	252.895	252.703	252.694	19
20	252.691	252.712	252.736	252.785	253.034	253.007	252.959	252.899	252.890	252.721	252.689	252.694	20
21	252.685	252.700	252.743	252.789	253.039	253.029	253.011	252.912	252.738	252.784	252.686	252.700	21
22	252.687	252.701	252.736	252.800	253.025	253.061	253.020	252.934A	252.785	252.926	252.701	252.707	22
23	252.683	252.692	252.749	252.807	253.046	253.112	253.045	---	252.878	252.713	252.700	252.699	23
24	252.685	252.696	252.754	252.804	253.059	253.097	253.058	---	252.800	252.741	252.699	252.697	24
25	252.696	252.719	252.742	252.809	253.055	253.064	253.042	---	252.816	252.845A	252.707	252.705	25
26	252.692	252.695	252.751	252.813	253.055	253.102	253.093	---	252.736	252.801E	252.709	252.713	26
27	252.682	252.706	252.751	252.819	253.072	253.145	253.120	---	---	252.838E	252.713	252.716	27
28	252.690	252.713	252.761	252.830	253.053	253.065	252.908	---	---	252.887A	252.705	252.692	28
29	252.669		252.770	252.864	253.054	253.126	252.900	---	---	252.721	252.722	252.708	29
30	252.686		252.762	252.858	253.056	253.122	252.961	---	---	252.762	252.705	252.719	30
31	252.690		252.752		253.071		253.022	---		252.759		252.714	31
MEAN	252.681	252.699	252.728	252.780	252.984	253.071	253.058	---	---	252.758	252.681	252.706	MEAN
MAX	252.696	252.719	252.770	252.864	253.075	253.145	253.202	---	---	253.024	252.781	252.729	MAX
MIN	252.661	252.684	252.691	252.740	252.871	252.955	252.900	---	---	252.496	252.518	252.692	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 253.202 ON JUL 03
MINIMUM DAILY, 252.496 ON OCT 04
MAXIMUM INSTANTANEOUS,
253.239 AT 21:52 CST ON JUL 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 58 30 N
LONG 100 58 30 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
53 500 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1962 ADJ.)

LAKE WINNIPEGOSIS AT WINNIPEGOSIS - STATION NO. 05LH001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	252.853	252.899	252.912	252.980	253.095	253.354	253.236	253.185	253.220	253.056	253.116	252.922
2	252.876	252.902	252.918	252.958	253.104	253.653	253.380	253.242	252.999	252.903	253.013	252.926
3	252.874	252.905	252.919	252.974	253.099	253.439	253.386	253.365	253.181	253.007	253.149	252.926
4	252.872	252.909	252.919	252.987	253.118	253.200	253.412	253.258	253.139	253.213	252.852	252.904
5	252.869	252.897	252.912	252.979	253.105	253.311	253.317	253.194	253.041	253.115	252.929	252.926
6	252.863	252.895	252.906	252.974	253.133	253.304	253.257	253.175	253.223	253.118	253.052	252.919
7	252.877	252.913	252.907	252.990	253.155	253.358	253.354	253.130	252.967	253.011	252.769	252.920
8	252.895	252.901	252.915	252.987	253.189	253.385	253.349	253.321	253.223	252.974	252.904	252.912
9	252.870	252.906	252.899	252.993	253.160	253.319	253.393	253.343	253.142	252.883	253.011	252.927
10	252.885	252.902	252.919	252.986	253.166	253.271	253.293	253.159	253.037	252.836	253.058	252.921
11	252.895	252.904	252.931	252.981	253.181	253.246	253.341	253.151	253.169	253.040	253.027	252.932
12	252.877	252.915	252.943	252.977	253.175	253.271	253.255	253.141	253.038	252.899	252.919	252.944
13	252.887	252.907	252.949	252.991	253.189	253.462	253.150	253.148	253.204	252.904	252.905	252.910
14	252.888	252.891	252.945	252.995	253.173	253.331	253.307	253.293	253.064	253.004	252.915	252.921
15	252.880	252.926	252.976	253.002	253.188	253.238	253.338	253.145	253.250	253.003	252.910	252.922
16	252.890	252.916	252.984	253.010	253.274	253.252	253.281	253.250	252.971	253.060	252.908	252.934
17	252.884	252.908	252.975	253.019	253.298	253.334	253.396	253.248	252.813	253.040	252.911	252.929
18	252.889	252.909	252.971	253.077	253.259	253.264	253.345	253.178	253.097	252.838	252.913	252.944
19	252.888	252.899	252.956	253.099	253.256	253.307	253.359	253.133	253.114	252.799	252.913	252.946A
20	252.879	252.900	252.985	253.116	253.256	253.386	253.395	253.124	253.124	253.022	252.922	252.942E
21	252.880	252.910	252.978	253.056	253.275	253.375	253.309	253.104	253.354	252.926	252.923	252.939A
22	252.886	252.919	252.973	253.052	253.305	253.382	253.270	253.074	253.168	252.947	252.916	252.918
23	252.898	252.925	252.964	253.058	253.289	253.254	253.252	253.117	252.970	252.964	252.928	252.924
24	252.890	252.919	252.953	253.068	253.281	253.260	253.258	253.253	253.069	252.954	252.933	252.930
25	252.887	252.901	252.978	253.081	253.290	253.341	253.352	253.372	253.047	252.815	252.926	252.924
26	252.889	252.924	252.971	253.091	253.291	253.294	253.232	253.210	253.121	252.986	252.929	252.918
27	252.897	252.916	252.974	253.089	253.299	253.275	253.160	253.140	253.175	253.197	252.925	252.924
28	252.896	252.904	252.963	253.099	253.322	253.382	253.353	253.152	253.095	252.806	252.926	252.933A
29	252.923		252.953	253.085	253.287	253.324	253.442	253.151	252.942	252.900	252.910	252.927A
30	252.904		252.959	253.102	253.279	253.294	253.241	253.113	252.859	252.937	252.916	252.920
31	252.904		252.974		253.248		253.201	253.142		252.946		252.930A
MEAN	252.885	252.908	252.948	253.039	253.217	253.329	253.310	253.194	253.094	252.971	252.944	252.926
MAX	252.923	252.926	252.985	253.399	253.322	253.653	253.442	253.372	253.354	253.213	253.149	252.946
MIN	252.853	252.891	252.899	252.958	253.095	253.200	253.150	253.074	252.813	252.799	252.769	252.904

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 253.065
MAXIMUM DAILY, 253.653 ON JUN 02
MINIMUM DAILY, 252.769 ON NOV 07
MAXIMUM INSTANTANEOUS,
253.774 AT 17:26 CST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 38 45 N
LONG 099 55 07 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA, 53 500 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.81B	1.16 B	0.860B	1.00B	1.10B	58.0	22.5	7.17	10.3	10.8	6.86B	4.02B
2	1.79B	1.16 B	0.860B	1.00B	1.10B	61.5	53.1	6.95	14.1	10.4	6.72B	3.99B
3	1.77B	1.14 B	0.860B	1.00B	1.10B	62.7	26.0	7.22	16.1	10.3	6.54B	3.92B
4	1.75B	1.14 B	0.860B	1.02B	1.12B	60.7	29.9	7.35	17.0	9.63	6.40B	3.88B
5	1.72B	1.12 B	0.860B	1.02B	1.14B	55.0	30.1	7.78	16.6	9.80	6.31B	3.85B
6	1.72B	1.10 B	0.860B	1.02B	1.16B	49.5	28.8	8.38	16.2	10.0	6.22B	3.81B
7	1.70B	1.08 B	0.860B	1.02B	1.18B	45.3	27.3	8.01	15.2	10.0	6.08B	3.78B
8	1.70B	1.06 B	0.878B	1.02B	1.21B	42.2	25.4	7.25	14.5	9.94	5.99B	3.74B
9	1.67B	1.04 B	0.878B	1.04B	1.23B	40.2	23.0	6.79	13.5	9.70	5.82B	3.71B
10	1.67B	1.02 B	0.878B	1.04B	1.25B	37.5	21.6	6.22	12.8	10.6	5.73B	3.67B
11	1.64B	1.02 B	0.878B	1.04B	1.31B	35.2	20.6	6.08	12.5	10.8	5.60B	3.64B
12	1.64B	1.00 B	0.878B	1.04B	1.80B	42.4	19.9	5.46	12.1	11.9	5.51B	3.60B
13	1.62B	0.979B	0.897B	1.04B	2.64B	59.1	18.6	5.44	11.6	12.1	5.42B	3.57B
14	1.62B	0.959B	0.897B	1.04B	4.30B	70.3	17.5	5.66	11.6	12.3	5.33B	3.53B
15	1.59B	0.959B	0.897B	1.04B	6.67B	72.4	16.3	5.64	12.3	12.3	5.24B	3.50B
16	1.59B	0.938B	0.897B	1.04B	10.8 B	69.0	15.4	5.66	13.9	12.2	5.11B	3.46B
17	1.57B	0.938B	0.897B	1.06B	20.5 B	62.6	15.0	6.44	14.5	12.2	5.07B	3.43B
18	1.54B	0.938B	0.897B	1.06B	33.4 B	56.7	14.5	6.70	14.5	9.58B	4.93B	3.39B
19	1.54B	0.918B	0.918B	1.06B	52.5 B	51.7	13.8	6.21	14.1	9.28B	4.84B	3.36B
20	1.52B	0.918B	0.918B	1.06B	74.8 B	48.0	13.0	5.32	14.0	9.05B	4.71B	3.32B
21	1.49B	0.897B	0.918B	1.06B	126	46.9	11.9	5.25	13.5	8.83B	4.62B	3.32B
22	1.47B	0.897B	0.938B	1.06B	144	45.2	11.7	5.23	12.8	8.61B	4.57B	3.29B
23	1.43B	0.897B	0.938B	1.08B	144	41.6	11.1	6.00	12.4	8.39B	4.48B	3.29B
24	1.38B	0.897B	0.938B	1.08B	136	38.2	10.6	6.12	12.3	8.17B	4.39B	3.25B
25	1.33B	0.897B	0.938B	1.08B	125	34.8	10.2	8.94	11.7	7.95B	4.35B	3.25B
26	1.31B	0.878B	0.959B	1.08B	111	32.4	9.47	10.6	11.8	7.75B	4.27B	3.22B
27	1.27B	0.878B	0.959B	1.08B	97.6	29.4	9.13	10.2	11.6	7.60B	4.20B	3.18B
28	1.25B	0.860B	0.979B	1.08B	86.4	27.0	9.45	9.24	11.6	7.45B	4.16B	3.18B
29	1.23B		0.979B	1.08B	76.0	24.6	9.16	9.61	11.1	7.30B	4.09B	3.15B
30	1.21B		0.979B	1.08B	66.9	23.6	8.50	8.88	11.1	7.10B	4.06B	3.15B
31	1.18B		1.00 B		59.5		7.58	8.13		6.95B		3.15B
TOTAL	47.72	27.688	28.153	31.42	1 395.71	1 423.6	531.09	217.93	397.1	298.9d	157.62	108.63
MEAN	1.54	0.989	0.908	1.05	45.0	47.5	17.1	7.03	13.2	9.64	5.25	3.50
MAX	1.81	1.16	1.00	1.08	144	72.4	30.1	10.6	17.0	12.3	6.86	4.02
MIN	1.18	0.860	0.860	1.00	1.10	23.6	7.58	5.23	10.3	6.95	4.06	3.15

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.8
MAXIMUM DAILY, 144 ON MAY 22
MINIMUM DAILY, 0.860B ON FEB 28
MAXIMUM INSTANTANEOUS,
159 AT 02:10 CST ON MAY 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 31 10 N
LONG 094 12 20 W
DRAINAGE AREA, 3 290 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 120	JUL	45 900
FEB	2 390	AUG	18 800
MAR	2 430	SEP	34 300
APR	2 710	OCT	25 800
MAY	121 000	NOV	13 600
JUN	123 000	DEC	9 390

TOTAL DISCHARGE, 403 000 dam³

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.17 B	---	---	---	---	64.1E	66.5	43.5	27.2	20.7	14.9 B	8.36B	1
2	1.14 B	---	---	---	---	73.8E	78.1	43.0	25.7	20.3	15.1 B	9.27B	2
3	1.12 B	---	---	---	---	81.7E	83.8	43.7	24.8	19.4	14.6 B	8.18B	3
4	1.10 B	---	---	---	---	87.2E	82.8	41.3	24.1	19.3	13.8 B	8.09B	4
5	1.07 B	---	---	---	---	92.1E	78.8	38.5	23.9	21.5	13.1 B	8.00B	5
6	1.05 B	---	---	1.34B	---	93.7E	74.4	35.9	23.8	21.9	12.5 B	7.92B	6
7	1.03 B	---	---	1.12B	---	90.6A	69.1	33.2	23.4	22.2	12.2 B	7.83B	7
8	1.02 B	---	---	1.05B	---	86.0	63.8	30.5	22.8	22.2	12.0 B	7.74B	8
9	0.997B	---	---	1.04B	---	80.3	59.3	28.1	22.7	21.3	12.4 B	7.65B	9
10	0.974B	---	---	1.31B	---	75.1	55.3	26.1	22.5	21.0	11.5 B	7.57B	10
11	0.943B	---	---	1.66B	---	71.2	51.4	24.1	22.6	21.7B	11.4 B	7.47B	11
12	---	---	---	1.74B	---	79.2	47.8	22.3	22.1	21.0B	11.3 B	7.39B	12
13	---	---	---	1.33B	---	127	44.5	21.4	21.2	20.3B	11.2 B	7.30B	13
14	---	---	---	1.41B	---	168	41.1	22.3	20.9	19.7B	11.0 B	7.21B	14
15	---	---	---	1.57B	---	169	38.1	23.2	20.2	21.8B	11.0 B	7.12B	15
16	---	---	---	1.79B	---	164	35.5	22.6	19.2	22.1B	10.8 B	7.04B	16
17	---	---	---	1.88B	---	155	34.2	22.0	18.9	22.2B	10.7 B	6.95B	17
18	---	---	---	2.03B	---	143	33.1	21.5	18.8	19.7B	10.6 B	6.86B	18
19	---	---	---	2.20B	---	133	32.0	20.3	18.9	19.6B	10.5 B	6.78B	19
20	---	---	---	2.40B	---	126	31.3	19.2	19.0	21.2B	10.4 B	6.69B	20
21	---	---	---	---	---	118	30.8	18.2	19.7	20.6B	10.3 B	6.60B	21
22	---	---	---	---	---	110	30.0	17.5	20.5	19.5B	9.39B	6.51B	22
23	---	---	---	---	---	102	28.7	18.1	21.3	19.4B	9.06B	6.42B	23
24	---	---	---	---	---	99.9	28.0	24.4	21.6	18.8B	8.97B	6.34B	24
25	---	---	---	---	---	98.1	28.7	30.2	21.6	18.6B	8.88B	6.25B	25
26	---	---	---	---	---	93.3	28.5	33.2	21.3	18.8B	8.79B	6.16B	26
27	---	---	---	---	---	87.3	27.8	34.1	20.9	16.4B	8.71B	6.07B	27
28	---	---	---	---	---	80.9	31.5	32.8	20.9	15.5B	8.62B	5.98B	28
29	---	---	---	---	---	74.8	49.3	31.9	20.9	14.8B	8.53B	5.90B	29
30	---	---	---	---	---	69.2	50.3	30.4	20.8	15.3B	8.45B	5.81B	30
31	---		---		---		46.1	28.4		14.7B		5.72B	31
TOTAL	---	---	---	---	---	3 093.5	1 480.6	882.5	652.4	611.5	330.60	218.18	TOTAL
MEAN	---	---	---	---	---	103	47.8	28.5	21.7	19.7	11.0	7.04	MEAN
MAX	---	---	---	---	---	169	83.8	43.8	27.2	22.2	15.1	8.36	MAX
MIN	---	---	---	---	---	64.1	27.8	17.3	18.8	14.7	8.45	5.72	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 169 ON JUN 15

MAXIMUM INSTANTANEOUS,
172 AT 00:30 CST ON JUN 15

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 39 10 N
LONG 095 39 50 W
DRAINAGE AREA, 4 250 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	128 000
FEB	---	AUG	76 200
MAR	---	SEP	56 400
APR	---	OCT	57 800
MAY	---	NOV	28 600
JUN	267 000	DEC	18 900

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 06FC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.44	---	---	---	---	89.4E	59.6	32.8	21.1	27.1	25.4	22.8B	1
2	6.50A	---	---	---	---	88.1E	59.2	31.0	25.3	26.6	25.6	22.7B	2
3	6.63	---	---	---	---	85.7E	59.5	32.0	30.2	27.4	26.1	22.7B	3
4	6.80A	---	---	---	---	83.1E	60.5	30.8	33.0	27.4	25.4	22.6B	4
5	6.82	---	---	---	---	80.8A	60.3	30.8	34.6	26.3	25.0	22.6B	5
6	6.80A	---	---	---	---	78.4	59.4	29.9	35.6	26.2	25.0	22.5B	6
7	6.89A	---	---	---	---	75.9	57.7	28.8	35.9	26.7	24.8	22.4B	7
8	6.81	---	---	---	---	73.2	56.4	27.5	34.4	27.2	24.5	22.3B	8
9	6.99A	---	---	---	---	69.0	54.6	25.9	33.0	27.5	24.9	22.1B	9
10	6.55A	---	---	---	---	66.3	53.4	25.1	32.9	27.4	25.5	21.8B	10
11	6.67A	---	---	---	---	62.8	51.9	24.2	32.1	28.0	25.2	21.6B	11
12	6.78A	---	---	---	---	66.2	50.6	23.4	31.6	28.0	26.4	21.5B	12
13	6.40E	---	---	---	---	81.1	48.6	24.2	31.1	27.8	24.5	21.5B	13
14	6.59A	---	---	---	---	95.5	47.1	24.3	30.6	28.2	23.1	21.4B	14
15	6.46	---	---	---	---	102	45.8	24.0	30.9	29.2	23.2B	21.2B	15
16	6.34	---	---	---	---	103	44.2	23.8	31.5	30.2	23.0B	21.1B	16
17	6.32	---	---	---	---	101	42.9	23.8	32.2	31.1	23.0B	20.8B	17
18	6.34	---	---	---	---	97.3	41.9	24.4	32.1	30.7	23.2B	20.7B	18
19	6.41	---	---	---	---	93.2	40.7	24.5	30.6	29.8	23.2B	20.7B	19
20	6.75A	---	---	---	---	89.1	39.3	24.1	30.5	29.9	23.3B	20.5B	20
21	---	---	---	---	---	85.4	39.0	22.9	30.3	30.1	23.4B	20.1B	21
22	---	---	---	---	---	82.7	37.9	21.6	29.8	30.1	23.4B	20.0B	22
23	---	---	---	---	---	80.3	37.1	21.3	29.2	29.6	23.4B	19.9B	23
24	---	---	---	---	---	76.2	36.3	20.7	28.3	29.2	23.4B	19.7B	24
25	---	---	---	---	---	74.0	35.7	20.8	28.6	28.8	23.3B	19.4B	25
26	---	---	---	---	---	71.7	34.9	20.3	28.3	29.0	23.3B	19.2B	26
27	---	---	---	---	---	69.3	34.2	19.9	27.8	29.0	23.2B	19.1B	27
28	---	---	---	---	---	66.7	33.4	19.6	28.1	27.8	23.2B	19.0B	28
29	---	---	---	---	---	64.2	31.1	19.1	28.3	26.7	23.0B	18.7B	29
30	---		---	---	---	61.7	30.2	18.9	27.9	26.0	22.9B	18.5B	30
31	---		---		---		30.0	19.5		25.8		18.3B	31
TOTAL	---	---	---	---	---	2 413.3	1 413.5	761.9	915.8	874.8	722.8	647.4	TOTAL
MEAN	---	---	---	---	---	80.4	45.6	24.6	30.5	28.2	24.1	20.9	MEAN
MAX	---	---	---	---	---	103	60.5	33.0	35.9	31.1	26.4	22.8	MAX
MIN	---	---	---	---	---	61.7	30.0	18.9	21.1	25.8	22.9	18.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 103 ON JUN 16

MAXIMUM INSTANTANEOUS,
103 AT 14:15 CST ON JUN 15

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 56 12 N
LONG 095 45 47 W
DRAINAGE AREA, 5 810 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	122 000
FEB	---	AUG	65 800
MAR	---	SEP	79 100
APR	---	OCT	75 600
MAY	---	NOV	62 400
JUN	209 000	DEC	55 900

LITTLE SASKATCHEWAN RIVER ABOVE RAPID CITY DAM - STATION NO. 05MF801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	479.872	479.547E	479.624E	479.612	479.523E	479.523	479.503E	---
2	---	---	---	---	479.802E	479.522E	479.601	479.607E	479.523E	479.510E	479.503	---
3	---	---	---	---	479.732	479.497E	479.591E	479.602	479.523	479.513	---	---
4	---	---	---	---	479.672E	479.472	479.581	479.599E	479.468E	479.513E	---	---
5	---	479.620	479.606	---	479.612	479.457E	479.576E	479.595E	479.413	479.513	---	---
6	---	---	---	---	479.542E	479.442	479.571	479.592	479.403	479.513E	---	---
7	---	---	---	---	479.472	479.432E	479.571E	479.587E	479.428E	479.513E	---	---
8	---	---	---	---	479.447E	479.422	479.571E	479.582	479.453E	479.513	---	---
9	---	---	---	---	479.422	479.472E	479.571	479.572E	479.478E	479.511E	---	---
10	479.569	---	---	---	479.380	479.522E	479.577E	479.562	479.503	479.508	---	---
11	---	---	---	---	479.596E	479.572	479.582	479.562E	479.503E	479.506E	---	479.528
12	---	---	---	---	479.812	479.547E	479.582E	479.562E	479.503	479.503	---	---
13	---	---	---	---	479.792E	479.522	479.582	479.562	479.505	479.503E	---	---
14	---	---	---	---	479.772	479.522E	479.622E	479.560E	479.505E	479.503E	---	---
15	---	---	---	---	479.787E	479.522	479.662E	479.557	479.504E	479.503	---	---
16	---	---	---	---	479.802	479.559E	479.702	479.555E	479.504E	479.503E	---	---
17	---	---	---	---	479.769E	479.596E	479.692E	479.552	479.503	479.503	---	---
18	---	---	---	---	479.735E	479.634E	479.682	479.549E	479.508E	479.503E	---	---
19	---	---	---	---	479.702	479.671	479.667E	479.545E	479.513	479.503	---	---
20	---	---	---	---	479.707E	479.631	479.652	479.542	479.513E	479.503E	---	---
21	---	---	---	---	479.712	479.641E	479.649E	479.548E	479.513	479.503E	---	---
22	---	---	---	479.812	479.717E	479.651	479.645E	479.553	479.513E	479.503	---	---
23	---	---	---	479.817E	479.722	479.660E	479.642	479.558E	479.513E	479.503E	---	---
24	---	---	---	479.822E	479.722E	479.684E	479.637E	479.563	479.513	479.503	---	---
25	---	---	---	479.827E	479.722	479.701	479.632	479.556E	479.513E	479.503E	---	---
26	---	---	---	479.832	479.702E	479.686E	479.627E	479.550E	479.513	479.503	---	---
27	---	---	---	479.852E	479.682	479.671	479.622	479.543	479.518E	479.503E	---	---
28	---	---	---	479.872	479.652E	479.671E	479.622E	479.543E	479.523	479.503E	---	---
29	---	---	---	479.872E	479.622	479.671	479.622E	479.543	479.523E	479.503	---	---
30	---	---	---	479.872E	479.597E	479.648E	479.622	479.533E	479.523E	479.503E	---	---
31	---	---	---		479.572		479.617E	479.523		479.503		---
MEAN	---	---	---	---	479.673	479.575	479.619	479.564	479.498	479.507	---	---
MAX	---	---	---	---	479.872	479.701	479.702	479.612	479.523	479.523	---	---
MIN	---	---	---	---	479.380	479.422	479.571	479.523	479.403	479.503	---	---

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 479.872 ON APR 28
MINIMUM DAILY, 479.380 ON MAY 10

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 07 18 N
LONG 100 02 24 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 19

DRAINAGE AREA,
3 250 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.243B	0.256B	0.242B	1.96B	24.7	11.4	4.49	1.59	0.359	0.108	0.353	0.261B
2	0.196B	0.277B	0.227B	2.06B	24.7	10.4	4.17	1.45	0.381	0.107	0.365	0.533B
3	0.199B	0.312B	0.219B	2.67B	24.6	9.60	4.15	1.39	0.380	0.110	0.371	0.427B
4	0.204B	0.340B	0.227B	3.82B	23.8	8.95	3.88	1.24	0.323	0.124	0.334B	0.241B
5	0.231B	0.334B	0.212B	2.73B	22.2	8.47	3.72	1.11	0.267	0.135	0.319B	0.252B
6	0.250B	0.310B	0.201B	3.09B	20.0	7.94	3.96	0.974	0.221	0.123	0.234B	0.253B
7	0.267B	0.314B	0.198B	2.65B	17.8	7.43	4.09	0.818	0.171	0.103	0.259B	0.253B
8	0.278B	0.322B	0.202B	2.02B	15.7	8.01	4.30	0.676	0.133	0.110	0.281B	0.254B
9	0.277B	0.306B	0.192B	1.65B	14.0	7.99	4.37	0.594	0.150	0.112	0.289B	0.258B
10	0.311B	0.313B	0.145B	1.70B	13.1	7.51	4.50	1.07	0.150	0.093	0.264B	0.261B
11	0.304B	0.323B	0.144B	2.31B	12.4	7.80	4.49	1.24	0.120	0.134	0.287B	0.272B
12	0.305B	0.312B	0.240B	3.49B	11.7	7.76	4.24	1.06	0.096	0.132	0.349B	0.283B
13	0.298B	0.252B	0.352B	3.28B	11.1	7.66	3.89	0.930	0.099	0.117	0.359B	0.289B
14	0.278B	0.204B	0.703B	3.47B	10.6	7.60	3.79	0.801	0.104	0.101	0.318B	0.293B
15	0.255B	0.239B	0.609B	3.76B	10.2	7.33	3.50	0.707	0.104	0.107	0.295B	0.297B
16	0.237B	0.219B	0.556B	5.31B	12.3	6.85	3.06	0.615	0.101	0.129	0.257B	0.296B
17	0.237B	0.204B	0.505B	5.08	12.7	6.56	3.07	0.520	0.100	0.108	0.280B	0.299B
18	0.245B	0.208B	0.425B	5.52	12.4	6.47	2.80	0.482	0.087	0.094	0.284B	0.298B
19	0.254B	0.190B	0.415B	6.20	13.3	6.66	2.67	0.506	0.091	0.089	0.277B	0.270B
20	0.256B	0.208B	0.435B	8.50	15.9	7.22	2.58	0.458	0.087	0.101	0.286B	0.266B
21	0.262B	0.234B	0.505B	14.7	21.5	7.52	2.44	0.372	0.090	0.122	0.323B	0.253B
22	0.258B	0.223B	0.625B	11.6	24.3	8.46	2.27	0.430	0.093	0.245	0.264B	0.234B
23	0.253B	0.216B	0.762B	11.8	23.4	8.89	2.08	0.524	0.091	0.251	0.280B	0.213B
24	0.255B	0.203B	0.969B	13.6	20.8	8.62	2.01	0.326	0.093	0.235	0.266B	0.191B
25	0.250B	0.218B	0.746B	18.6	18.4	8.12	2.02	0.469	0.116	0.207	0.283B	0.182B
26	0.247B	0.239B	0.586B	22.9	17.3	7.21	2.49	0.377	0.116	0.219	0.290B	0.180B
27	0.232B	0.234B	0.461B	25.7	16.5	6.16	2.51	0.411	0.106	0.285	0.304B	0.188B
28	0.219B	0.239B	0.361B	25.9	15.8	5.51	2.33	0.527	0.137	0.339	0.291B	0.211B
29	0.233B		0.396B	25.8	14.9	5.06	2.14	0.444	0.108	0.300	0.271B	0.210B
30	0.249B		1.09 B	25.0	13.7	4.72	1.96	0.477	0.105	0.307	0.272B	0.208B
31	0.256B		2.48 B		12.5		1.76	0.414		0.327		0.188B
TOTAL	7.839	7.249	15.630	265.87	522.3	229.87	99.73	23.002	4.579	5.071	8.905	7.614
MEAN	0.253	0.259	0.504	8.86	16.8	7.66	3.22	0.742	0.153	0.164	0.297	0.246
MAX	0.311	0.340	2.48	25.9	24.7	11.4	4.50	1.59	0.381	0.339	0.371	0.299
MIN	0.196	0.190	0.144	1.65	10.2	4.72	1.76	0.326	0.087	0.089	0.234	0.180

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.28
MAXIMUM DAILY, 25.9 ON APR 28
MINIMUM DAILY, 0.087 ON SEP 18
MAXIMUM INSTANTANEOUS,
26.0 AT 07:15 CST ON APR 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 21 28 N
LONG 099 54 00 W
DRAINAGE AREA, 2 630 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	677	JUL	8 620
FEB	626	AUG	1 990
MAR	1 350	SEP	396
APR	23 000	OCT	438
MAY	45 100	NOV	769
JUN	19 900	DEC	658

TOTAL DISCHARGE, 104 000 dam

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.617B	0.479B	0.567B	0.695	24.2	14.3	5.24	1.61	0.931	3.15	1.00	1.12 B	1
2	0.617B	0.469B	0.553B	0.697	25.6	14.1	5.12	1.65	0.959	3.13	1.00	1.11 B	2
3	0.617B	0.469B	0.555B	0.733	25.2	12.5	5.00	1.92	1.01	3.08	0.999	1.11 B	3
4	0.610B	0.469B	0.545B	0.735	24.8	11.6	4.58	1.68	1.06	3.04	0.975	1.11 B	4
5	0.600B	0.466B	0.538B	0.740	24.5	11.2	4.23	1.43	1.06	3.01	0.974	1.11 B	5
6	0.590B	0.462B	0.528B	0.767	23.9	10.7	4.25	1.23	1.11	3.02	0.976	1.10 B	6
7	0.588B	0.467B	0.535B	0.788	22.3	10.3	4.20	0.983	1.09	2.95	1.01	1.10 B	7
8	0.586B	0.462B	0.533	0.818	21.7	11.6	4.38	0.942	1.12	2.91	1.03	1.11 B	8
9	0.584B	0.461B	0.531	1.17	19.8	11.1	4.25	0.782	1.13	2.90	1.03	1.05 B	9
10	0.582B	0.459B	0.535	2.63	17.7	10.6	4.13	0.649	1.16	2.90	1.04	0.995B	10
11	0.580B	0.487B	0.526	3.02	16.4	10.7	4.04	0.662	1.31	2.90	1.04	0.985B	11
12	0.578B	0.510B	0.596	3.64	14.9	10.3	3.93	0.577	5.30	2.88	1.03	0.988B	12
13	0.576B	0.516B	0.618	4.21	14.4	10.1	3.87	0.587	7.99	2.79	1.04	0.985B	13
14	0.574B	0.515B	0.550	5.25	13.8	9.98	4.51	0.715	5.85	2.76	1.05	0.954B	14
15	0.573B	0.521B	0.527	6.30	13.6	9.62	3.74	0.771	2.49	2.75	1.08	0.944B	15
16	0.572B	0.525B	0.519	6.61	15.4	9.39	3.48	0.803	2.46	2.72	1.10	0.955B	16
17	0.555B	0.532B	0.512	6.53	15.2	9.14	3.43	0.765	2.41	2.64	1.11	0.962B	17
18	0.533B	0.540B	0.522	6.75	14.9	8.92	3.23	0.739	2.35	2.63	1.13	0.957B	18
19	0.515B	0.540B	0.515	7.56	14.6	9.33	3.08	0.700	2.32	2.61	1.12	0.953B	19
20	0.501B	0.551B	0.529	8.32	14.4	9.13	2.89	0.706	2.30	2.62	1.10	0.948B	20
21	0.503B	0.565B	0.532	9.21	14.5	8.61	2.68	0.708	2.25	2.59	1.11	0.946B	21
22	0.506B	0.566B	0.533	10.6	15.6	8.28	2.53	0.727	2.22	2.57	1.11	0.949B	22
23	0.508B	0.571B	0.528	12.1	17.4	8.05	2.36	0.749	2.19	2.57	1.11 B	0.940B	23
24	0.491B	0.557B	0.538	12.8	19.1	8.18	2.25	0.784	2.17	2.53	1.11 B	0.934B	24
25	0.476B	0.553B	0.554	13.9	19.9	8.26	2.17	0.843	2.51	1.80	1.11 B	0.939B	25
26	0.470B	0.562B	0.553	15.5	19.1	8.07	2.00	0.847	3.18	0.834	1.11 B	0.943B	26
27	0.465B	0.555B	0.568	15.5	17.7	7.55	1.99	0.852	3.24	0.925	1.10 B	0.934B	27
28	0.466B	0.560B	0.578	16.4	17.0	7.10	1.94	0.864	3.32	0.957	1.12 B	0.927B	28
29	0.471B		0.630	19.9	16.0	6.49	1.89	0.852	3.21	1.00	1.12 B	0.923B	29
30	0.471B		0.703	22.5	15.1	5.87	1.77	0.871	3.21	0.990	1.12 B	0.917B	30
31	0.480B		0.685		14.5		1.67	0.895		0.984		0.917B	31
TOTAL	16.855	14.389	17.236	216.573	564.2	291.07	104.83	28.973	72.910	75.160	31.954	30.815	TOTAL
MEAN	0.544	0.514	0.556	7.22	18.2	9.70	3.38	0.935	2.43	2.42	1.07	0.994	MEAN
MAX	0.617	0.571	0.703	22.5	25.6	14.3	5.24	1.92	7.99	3.15	1.13	1.12	MAX
MIN	0.465	0.459	0.512	0.695	13.6	5.87	1.67	0.577	0.931	0.834	0.974	0.917	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.01
MAXIMUM DAILY, 25.6 ON MAY 02
MINIMUM DAILY, 0.459B ON FEB 10
MAXIMUM INSTANTANEOUS,
25.9 AT 08:16 CST ON MAY 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 26 N
LONG 100 12 56 W
DRAINAGE AREA, 3 910 km²

B - ICE CONDITIONS

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 460	JUL	9 060
FEB	1 240	AUG	2 500
MAR	1 490	SEP	6 300
APR	18 700	OCT	6 490
MAY	48 700	NOV	2 760
JUN	25 100	DEC	2 660

TOTAL DISCHARGE, 126 000 dam³

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.262	0.022	0.001	0	0	0	0	---	---	1
2	---	---	0 B	0.962	0.022	0.008	0	0	0	0	---	---	2
3	---	---	0 B	1.71	0.024	0.011	0	0	0	0	---	---	3
4	---	---	0 B	1.84	0.021	0.012	0	0	0	0	---	---	4
5	---	---	0 B	1.76	0.019	0.013	0	0	0	0	---	---	5
6	---	---	0 B	1.31	0.015	0.011	0	0	0	0	---	---	6
7	---	---	0 B	0.850	0.012	0.011	0	0	0	0	---	---	7
8	---	---	0 B	0.483	0.009	0.016	0	0	0	0	---	---	8
9	---	---	0 B	0.233	0.006	0.016	0	0	0	0	---	---	9
10	---	---	0 B	0.161	0.004	0.015	0	0	0	0	---	---	10
11	---	---	0 B	0.131	0.003	0.017	0	0	0	0	---	---	11
12	---	---	0 B	0.108	0.003	0.016	0	0	0	0	---	---	12
13	---	---	0.703B	0.090	0.004	0.012	0	0	0	0	---	---	13
14	---	---	2.20 B	0.074	0.004	0.010	0	0	0	0	---	---	14
15	---	---	0.999B	0.060	0.005	0.007	0	0	0	0	---	---	15
16	---	---	0.429B	0.046	0.030	0.005	0	0	0	0	---	---	16
17	---	---	0.280B	0.038	0.253	0.005	0	0	0	0	---	---	17
18	---	---	0.166B	0.025	0.104	0.005	0	0	0	0	---	---	18
19	---	---	0.100B	0.017	0.022	0.006	0	0	0	0	---	---	19
20	---	---	0.074B	0.011	0.013	0.009	0	0	0	0	---	---	20
21	---	---	0.065B	0.009	0.011	0.008	0	0	0	0	---	---	21
22	---	---	0.055B	0.008A	0.012	0.005	0	0	0	0	---	---	22
23	---	---	0.044B	0.009E	0.014	0.003	0	0	0	0	---	---	23
24	---	---	0.039B	0.011E	0.016	0.001	0	0	0	0	---	---	24
25	---	---	0.032B	0.012A	0.016	0	0	0	0	0	---	---	25
26	---	---	0.031B	0.021	0.013	0	0	0	0	0	---	---	26
27	---	---	0.038B	0.021	0.012	0	0	0	0	0	---	---	27
28	---	---	0.034B	0.021	0.012	0	0	0	0	0	---	---	28
29	---	---	0.029	0.019	0.011	0	0	0	0	0	---	---	29
30	---		0.028	0.020	0.006	0	0	0	0	0	---	---	30
31	---		0.035		0.001		0	0		0		---	31
TOTAL	---	---	5.381	10.322	0.719	0.223	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.174	0.344	0.023	0.007	0	0	0	0	---	---	MEAN
MAX	---	---	2.20	1.84	0.253	0.017	0	0	0	0	---	---	MAX
MIN	---	---	0	0.008	0.001	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.068
MAXIMUM DAILY, 2.20B ON MAR 14
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.92 AT 20:51 CST ON MAR 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 43 56 N
LONG 099 50 52 W
DRAINAGE AREA, 461 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	465	SEP	0
APR	892	OCT	0
MAY	62.1	NOV	---
JUN	19.3	DEC	---

TOTAL DISCHARGE, 1 440 dam³

LONG LAKE NEAR LITTLE GRAND RAPIDS - STATION NO. 05RD010

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	28.646	28.602A	28.564	28.610	29.476	29.904	29.954	29.510	29.116	28.829	28.594	28.508	1
2	28.642	28.601A	28.550	28.618	29.447	29.917	29.937	29.490	29.106	28.855	28.590	28.500	2
3	28.640	28.604	28.540A	28.621	29.420	29.937	29.920	29.473	29.129	28.809	28.582	28.499	3
4	28.633	28.606	28.539A	28.621	29.396	29.959	29.905	29.461	29.119	28.800	28.577	28.498	4
5	28.629	28.603	28.540A	28.621	29.374	29.968	29.893	29.444	29.105	28.795	28.572	28.495	5
6	28.630	28.603	28.540A	28.623	29.357	29.986	29.880	29.428	29.090	28.784	28.563	28.488	6
7	28.632	28.603	28.539A	28.624	29.374	30.008	29.877	29.414	29.076	28.775	28.562	28.488	7
8	28.634	28.604	28.539	28.624	29.394	30.023	29.867	29.395	29.066	28.766	28.559	28.488	8
9	28.632	28.601	28.539	28.621	29.423	30.043	29.856	29.377	29.051	28.758	28.553	28.485	9
10	28.638	28.596	28.537	28.619	29.442	30.056	29.846	29.362	29.042	28.748	28.547	28.478	10
11	28.638	28.596	28.533	28.619	29.458	30.059	29.833	29.348	29.030	28.739	28.540	28.477	11
12	28.637	28.598	28.535	28.618	29.466	30.074	29.822	29.339	29.017	28.727	28.536	28.478	12
13	28.635	28.591	28.547	28.619	29.468	30.078	29.808	29.326	29.003	28.722	28.536	28.475	13
14	28.635	28.589A	28.551	28.621	29.467	30.077	29.793	29.312	28.990	28.715	28.535	28.475	14
15	28.632	28.588	28.580	28.626	29.466	30.080	29.776	29.306	28.975	28.706	28.529	28.474	15
16	28.632	28.584	28.608	28.632	29.465	30.080	29.762	29.292	28.964	28.702	28.525	28.474	16
17	28.628	28.582A	28.610	28.639	29.491	30.078	29.745	29.280	28.951	28.695	28.523	28.468	17
18	28.622	28.585	28.611	28.659	29.517	30.071	29.728	29.265	28.933	28.686	28.516	28.468	18
19	28.624	28.583	28.614	28.718	29.542	30.064	29.713	29.248	28.921	28.681	28.511	28.466	19
20	28.622	28.586	28.614	28.813	29.566	30.053	29.696	29.237	28.910	28.670	28.510	28.463	20
21	28.624	28.586	28.613	28.948	29.592	30.046	29.682	29.225	28.914	28.661	28.513	28.462	21
22	28.624	28.579	28.613	29.116	29.622	30.039	29.666	29.216	28.913	28.659	28.524	28.461	22
23	28.620	28.571	28.610	29.276	29.656	30.029	29.650	29.217	28.901	28.651	28.524	28.462	23
24	28.621	28.564	28.611	29.445	29.686	30.019	29.632	29.201	28.890	28.649	28.522	28.463	24
25	28.620	28.567A	28.609	29.542	29.717	30.015	29.616	29.191	28.879	28.643	28.519	28.461	25
26	28.620	28.569	28.605	29.587	29.748	30.004	29.606	29.185	28.870	28.634	28.518	28.460	26
27	28.616	28.563	28.604	29.592	29.777	29.994	29.594	29.173	28.861	28.620	28.514	28.461	27
28	28.607A	28.565	28.603	29.574	29.802	29.989	29.576	29.163	28.852	28.619	28.514	28.465	28
29	28.605		28.603	29.546	29.830	29.979	29.561	29.154	28.845	28.612	28.514	28.465	29
30	28.610A		28.603	29.508	29.855	29.967	29.544	29.144	28.836	28.606	28.513	28.464	30
31	28.606		28.605		29.880		29.530	29.130		28.601		28.463A	31
MEAN	28.627	28.588	28.578	28.897	29.554	30.020	29.751	29.300	28.979	28.706	28.538	28.475	MEAN
MAX	28.646	28.606	28.614	29.592	29.880	30.080	29.954	29.510	29.129	28.829	28.594	28.508	MAX
MIN	28.605	28.563	28.533	28.610	29.357	29.904	29.530	29.130	28.836	28.601	28.510	28.460	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 29.003
MAXIMUM DAILY, 30.080 ON JUN 15
MINIMUM DAILY, 28.460 ON DEC 26
MAXIMUM INSTANTANEOUS,
30.087 AT 19:58 CST ON JUN 16

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 11 30 N
LONG 096 05 20 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

LONG RIVER NEAR HOLMFIELD - STATION NO. 05OA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 199J

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.18 B	0.012	0.007	0.006	0.002	0.001	0	---	---	1
2	---	---	0 B	1.76 B	0.008	0.023	0.005	0.002	0.001	0	---	---	2
3	---	---	0 B	1.36 B	0.010	0.036	0.008	0.001	0	0	---	---	3
4	---	---	0 B	0.752B	0.008	0.029	0.007	0	0	0	---	---	4
5	---	---	0 B	0.608B	0.007	0.025	0.008	0	0	0	---	---	5
6	---	---	0 B	0.638B	0.006	0.018	0.008	0	0	0	---	---	6
7	---	---	0 B	0.464B	0.006	0.022	0.013	0	0	0	---	---	7
8	---	---	0.020B	0.260B	0.007	0.206	0.021	0	0	0	---	---	8
9	---	---	0.088B	0.207B	0.007	0.216	0.013	0	0	0	---	---	9
10	---	---	0.040B	0.185B	0.006	0.164	0.012	0	0	0	---	---	10
11	---	---	0.029B	0.173B	0.006	0.059	0.009	0	0	0	---	---	11
12	---	---	0.057B	0.109B	0.005	0.032	0.007	0	0	0	---	---	12
13	---	---	0.146B	0.089	0.005	0.021	0.006	0	0	0	---	---	13
14	---	---	0.381B	0.076	0.005	0.020	0.006	0	0	0	---	---	14
15	---	---	0.368B	0.065	0.006	0.042	0.005	0	0	0	---	---	15
16	---	---	0.376B	0.077	0.027	0.032	0.004	0	0	0	---	---	16
17	---	---	0.296B	0.098	0.050	0.107	0.004	0	0	0	---	---	17
18	---	---	0.346B	0.072	0.044	0.160	0.004	0	0	0	---	---	18
19	---	---	0.254B	0.058	0.051	0.213	0.004	0	0	0	---	---	19
20	---	---	0.227B	0.046	0.030	0.474	0.004	0	0	0	---	---	20
21	---	---	0.140B	0.094	0.016	0.630	0.003	0	0	0	---	---	21
22	---	---	0.101B	0.033	0.013	0.350	0.003	0	0	0	---	---	22
23	---	---	0.113B	0.019	0.009	0.144	0.003	0	0	0	---	---	23
24	---	---	0.137B	0.014	0.008	0.065	0.002	0	0	0	---	---	24
25	---	---	0.071B	0.018	0.007	0.031	0.002	0	0	0	---	---	25
26	---	---	0.068B	0.036	0.006	0.018	0.003	0	0	0	---	---	26
27	---	---	0.086B	0.054	0.005	0.014	0.003	0.001	0	0	---	---	27
28	---	---	0.085B	0.038	0.005	0.014	0.003	0.002	0	0	---	---	28
29	---	---	0.149B	0.028	0.005	0.009	0.002	0.002	0	0	---	---	29
30	---		0.462B	0.018	0.005	0.006	0.002	0.001	0	0	---	---	30
31	---		0.827B		0.005		0.002	0.001		0		---	31
TOTAL	---	---	4.867	9.629	0.390	3.187	0.182	0.012	0.002	0	---	---	TOTAL
MEAN	---	---	0.157	0.321	0.013	0.106	0.006	0	0	0	---	---	MEAN
MAX	---	---	0.827	2.18	0.051	0.630	0.021	0.002	0.001	0	---	---	MAX
MIN	---	---	0	0.014	0.005	0.006	0.002	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.075
MAXIMUM DAILY, 2.18B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.96B AT 15:00 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 51 N
LONG 099 24 51 W
DRAINAGE AREA, 577 km²

B - ICE CONDITIONS

REGULATED SINCE 1956

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	15.7
FEB	---	AUG	1.04
MAR	421	SEP	0.173
APR	832	OCT	0
MAY	33.7	NOV	---
JUN	275	DEC	---

TOTAL DISCHARGE, 1 580 dam³

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05OD028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.51 B	0.009	0	0.009	0	0	0	---	---	1
2	---	---	0 B	3.56 B	0.008	0.006	0.014	0	0	0	---	---	2
3	---	---	0 B	2.61 B	0.009	0.013	0.105	0	0	0	---	---	3
4	---	---	0 B	6.64	0.010	0.072	0.634	0	0	0	---	---	4
5	---	---	0 B	4.14	0.012	0.041	0.456	0	0	0	---	---	5
6	---	---	0 B	4.46	0.014	0.013	0.387	0	0	0	---	---	6
7	---	---	0 B	4.32	0.012	0.009	1.13	0	0	0	---	---	7
8	---	---	0 B	3.68	0.010	0.011	1.16	0	0	0	---	---	8
9	---	---	0 B	2.66	0.008	0.010	0.887	0	0	0	---	---	9
10	---	---	0 B	1.91	0.007	0.014	0.741	0	0	0	---	---	10
11	---	---	0 B	1.06	0.007	0.016	0.567	0	0	0	---	---	11
12	---	---	0.010B	0.791	0.006	0.013	0.422	0	0	0	---	---	12
13	---	---	0.392B	0.718	0.006	0.011	0.306	0	0	0	---	---	13
14	---	---	1.88 B	0.720	0.005	0.010	0.249	0	0	0	---	---	14
15	---	---	3.19 B	0.309	0.005	0.009	0.200	0	0	0	---	---	15
16	---	---	1.55 B	0.217	0.005	0.008	0.160	0	0	0	---	---	16
17	---	---	1.25 B	0.202	0.006	0.007	0.121	0	0	0	---	---	17
18	---	---	0.877B	0.172	0.005	0.007	0.089	0	0	0	---	---	18
19	---	---	1.01 B	0.156	0.006	0.008	0.053	0	0	0	---	---	19
20	---	---	0.726B	0.121	0.006	0.024	0.026	0	0	0	---	---	20
21	---	---	0.579B	0.080	0.006	0.028	0.013	0	0	0	---	---	21
22	---	---	0.572B	0.046	0.006	0.073	0.009	0	0	0	---	---	22
23	---	---	0.540B	0.021	0.005	0.122	0.007	0	0	0	---	---	23
24	---	---	0.520B	0.011	0.004	0.125	0.006	0	0	0	---	---	24
25	---	---	0.500B	0.009	0.003	0.107	0.005	0	0	0	---	---	25
26	---	---	0.480B	0.007	0.003	0.099	0.004	0	0	0	---	---	26
27	---	---	0.520B	0.006	0.002	0.081	0.003	0	0	0E	---	---	27
28	---	---	0.750B	0.007	0.002	0.047	0.003	0	0	0E	---	---	28
29	---	---	1.82 B	0.010	0.001	0.021	0.002	0	0	0E	---	---	29
30	---		3.77 B	0.310	0	0.011	0.001	0	0	0E	---	---	30
31	---		5.13 B		0		0.001	0		0E		---	31
TOTAL	---	---	26.066	46.153	0.188	1.016	7.770	0	0	0	---	---	TOTAL
MEAN	---	---	0.841	1.54	0.006	0.034	0.251	0	0	0	---	---	MEAN
MAX	---	---	5.13	6.64	0.014	0.125	1.16	0	0	0	---	---	MAX
MIN	---	---	0	0.006	0	0	0.001	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.331
MAXIMUM DAILY, 6.64 ON APR 04
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
7.38 AT 22:26 CST ON APR 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 01 N
LONG 097 08 42 W
DRAINAGE AREA, 236 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	671
FEB	---	AUG	0
MAR	2 250	SEP	0
APR	3 990	OCT	0
MAY	16.2	NOV	---
JUN	87.8	DEC	---

TOTAL DISCHARGE, 7 020 dam³

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.56B	2.59B	3.04	5.62	10.7	21.1	26.6	14.5	4.57	3.10	2.33	2.17	1
2	2.51B	2.65B	3.11	5.93	10.3	21.8	25.7	14.0	4.39	3.01	2.30	2.11	2
3	2.51B	2.73B	3.04	5.91	9.91	23.7	27.4	13.4	4.53	3.01	2.27	2.01	3
4	2.48B	2.80B	2.94	5.71	9.52	24.3	30.9	12.8	4.48	3.00	2.26	2.09	4
5	2.47B	2.82B	2.95	5.34	9.17	24.3	30.9	12.2	4.29	2.99	2.25	2.06	5
6	2.45B	2.75B	2.93	4.66	9.11	24.2	28.7	11.6	4.22	2.99	2.21	2.08	6
7	2.45B	2.68B	3.02	4.14	9.46	24.1	29.1	11.1	4.03	2.98	2.19	2.03	7
8	2.53B	2.65B	3.04	3.85	12.4	24.8	29.8	10.6	3.95	2.90	2.18	2.05	8
9	2.54B	2.56B	3.16	3.78	15.8	26.5	30.8	10.1	3.91	2.70	2.19	2.04	9
10	2.54B	2.54B	3.15	3.82	16.7	27.6	30.2	9.58	3.66	2.66	2.14	2.03	10
11	2.61B	2.44B	3.06	3.71	16.8	28.6	28.8	9.07	3.72	2.64	2.13	2.02	11
12	2.63B	2.50B	3.08	3.65	16.7	30.2	27.5	8.76	3.55	2.61	2.12	2.02	12
13	2.62B	2.52B	3.37	3.80	16.5	31.6	26.4	8.45	3.54	2.62	2.16	2.05	13
14	2.56B	2.41B	3.34	3.96	16.6	31.4	25.4	8.35	3.54	2.63	2.19	2.04	14
15	2.53B	2.39B	3.74	4.02	17.0	30.9	24.6	7.92	3.34	2.60	2.18	2.03	15
16	2.50B	2.51B	5.07	3.93	18.1	30.3	23.7	7.76	3.27	2.54	2.17	2.02	16
17	2.54B	2.64B	5.27	3.75	22.2 A	30.1	24.1	7.34	3.26	2.52	2.15	1.93B	17
18	2.49B	2.79B	5.12	4.06	23.8 A	30.0	23.2	7.08	3.25	2.52	2.14	1.86B	18
19	2.46B	3.16B	4.87	5.58	23.9	29.7	22.2	6.79	3.27	2.47	2.11	1.85B	19
20	2.39B	3.25B	4.54	7.42	23.7	29.8	21.5	6.52	3.27	2.46	2.11	1.83B	20
21	2.55B	3.52	4.17	8.53	23.5	31.1	21.4	6.32	3.27	2.44	2.20	1.87B	21
22	2.57B	3.57	3.89	9.37	23.8	31.6	20.8	6.15	3.26	2.41	2.27	1.78B	22
23	2.59B	3.38	3.68	10.9	24.7	33.1	20.2	6.04	3.30	2.39	2.29	1.88B	23
24	2.46B	3.16	3.48	11.6	24.3	33.4	19.7	5.81	3.34	2.41	2.31	1.96B	24
25	2.50B	3.12	3.34	13.1	24.3	32.8	19.1	5.85	3.27	2.40	2.28	2.08B	25
26	2.49B	3.12	3.25	14.1	24.0	31.8	18.7	5.70	3.21	2.39	2.24	2.03B	26
27	2.45B	3.04	3.17	13.2	23.5	30.6	18.1	5.58	3.18	2.37	2.24	1.95B	27
28	2.42B	3.03	3.13	12.4	22.8	30.1	17.7	5.16	3.17	2.35	2.24	1.95B	28
29	2.38B		3.09	11.9	22.3	28.9	16.8	5.02	3.17	2.34	2.22	2.09B	29
30	2.38B		3.29	11.3	21.8	27.8	15.9	4.88	3.16	2.35	2.21	2.02B	30
31	2.55B		4.10		21.5		15.2	4.79		2.35		1.90B	31
TOTAL	77.71	79.32	110.43	209.04	565.07	856.2	741.1	259.22	108.37	81.15	66.28	61.83	TOTAL
MEAN	2.51	2.83	3.56	6.97	18.2	28.5	23.9	8.36	3.61	2.62	2.21	1.99	MEAN
MAX	2.63	3.57	5.27	14.1	24.7	33.4	30.9	14.5	4.57	3.10	2.33	2.17	MAX
MIN	2.38	2.39	2.93	3.65	9.11	21.1	15.2	4.79	3.16	2.34	2.11	1.78	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.81
MAXIMUM DAILY, 33.4 ON JUN 24
MINIMUM DAILY, 1.78B ON DEC 22
MAXIMUM INSTANTANEOUS,
33.4 AT 17:48 CST ON JUN 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 54 N
LONG 096 17 00 W
DRAINAGE AREA, 1 830 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	6 710	JUL	64 000
FEB	6 850	AUG	22 400
MAR	9 540	SEP	9 360
APR	18 100	OCT	7 010
MAY	48 800	NOV	5 730
JUN	74 000	DEC	5 340

TOTAL DISCHARGE, 278 000 dam³

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.63 B	0.057	0.044	0.168	0.006	0.014	0.151	---	---	1
2	---	---	0 B	4.39 B	0.052	2.01	0.159	0.005	0.012	0.137	---	---	2
3	---	---	0 B	4.04 B	0.045	5.93	0.153	0.005	0.010	0.108	---	---	3
4	---	---	0 B	2.14 B	0.039	2.48	0.145	0.004	0.009	0.085	---	---	4
5	---	---	0 B	1.13 B	0.034	1.30	0.141	0.003	0.006	0.071	---	---	5
6	---	---	0 B	0.918B	0.032	1.05	0.147	0.002	0.006	0.050	---	---	6
7	---	---	0 B	0.714B	0.031	0.784	0.177	0	0.008	0.039	---	---	7
8	---	---	0 B	0.557B	0.028	0.756	0.245	0	0.010	0.034	---	---	8
9	---	---	0 B	0.476B	0.026	2.20	0.472	0	0.010	0.033	---	---	9
10	---	---	0 B	0.471B	0.025	1.18	0.272	0	0.008	0.033	---	---	10
11	---	---	0 B	0.359B	0.023	0.676	0.209	0	0.007	0.031	---	---	11
12	---	---	0 B	0.339B	0.023	4.78	0.179	0	0.006	0.027	---	---	12
13	---	---	0.038B	0.365B	0.027	6.19	0.166	0	0.005	0.025	---	---	13
14	---	---	1.06 B	0.343B	0.030	3.32	0.153	0	0.004	0.024	---	---	14
15	---	---	2.09 B	0.336B	0.029	1.62	0.138	0	0.001	0.023	---	---	15
16	---	---	4.04 B	0.311B	0.040	0.909	0.131	0	0.001	0.023	---	---	16
17	---	---	5.58 B	0.267	0.091	0.564	0.126	0	0	0.022	---	---	17
18	---	---	4.26 B	0.228	0.590	0.396	0.136	0.001	0.004	0.022	---	---	18
19	---	---	2.92 B	0.191	0.532	0.421	0.202	0.010	0.004	0.022	---	---	19
20	---	---	1.44 B	0.154	0.355	0.358	0.176	0.031	0.008	0.022	---	---	20
21	---	---	1.07 B	0.127	0.231	0.474	0.114	0.108	0.019	0.031	---	---	21
22	---	---	0.992B	0.108	0.154	0.733	0.100	0.106	0.018	0.026	---	---	22
23	---	---	0.772B	0.093	0.124	0.761	0.071	0.088	0.020	0.018	---	---	23
24	---	---	0.629B	0.080	0.116	0.581	0.057	0.073	0.019	0.011	---	---	24
25	---	---	0.463B	0.071	0.104	0.411	0.044	0.050	0.020	0.010	---	---	25
26	---	---	0.375B	0.062	0.088	0.316	0.036	0.035	0.023	0.010	---	---	26
27	---	---	0.328B	0.054	0.069	0.251	0.026	0.027	0.058	0.011	---	---	27
28	---	---	0.319B	0.052	0.061	0.217	0.019	0.028	0.203	0.013	---	---	28
29	---	---	0.348B	0.050	0.056	0.196	0.015	0.035	0.195	0.015A	---	---	29
30	---		1.44 B	0.053	0.052	0.182	0.012	0.027	0.167	0.015E	---	---	30
31	---		6.24 B		0.048		0.009	0.019		0.015E		---	31
TOTAL	---	---	34.404	24.111	3.212	41.090	4.198	0.663	0.875	1.157	---	---	TOTAL
MEAN	---	---	1.11	0.804	0.104	1.37	0.135	0.021	0.029	0.037	---	---	MEAN
MAX	---	---	6.24	5.63	0.590	6.19	0.472	0.108	0.203	0.151	---	---	MAX
MIN	---	---	0	0.050	0.023	0.044	0.009	0	0	0.010	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.448
MAXIMUM DAILY, 6.24B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
8.24 AT 18:46 CST ON JUN 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 50 N
LONG 096 54 20 W
DRAINAGE AREA, 496 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	363
FEB	---	AUG	57.3
MAR	2 970	SEP	75.6
APR	2 080	OCT	100
MAY	278	NOV	---
JUN	3 550	DEC	---

TOTAL DISCHARGE, 9 470 dam³

MAPLE LAKE NEAR PIPESTONE - STATION NO. 05NG022

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	---	---	1
2	---	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	---	---	2
3	---	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	---	---	3
4	---	---	---	430.088A	DRY	DRY	DRY	DRY	DRY	DRY	---	---	4
5	---	---	---	430.094	DRY	DRY	DRY	DRY	DRY	DRY	---	---	5
6	---	---	---	430.091	DRY	DRY	DRY	DRY	DRY	DRY	---	---	6
7	---	---	---	430.087	DRY	DRY	DRY	DRY	DRY	DRY	---	---	7
8	---	---	---	430.085	DRY	DRY	DRY	DRY	DRY	DRY	---	---	8
9	---	---	---	430.086	DRY	DRY	DRY	DRY	DRY	DRY	---	---	9
10	---	---	---	430.081	DRY	DRY	DRY	DRY	DRY	DRY	---	---	10
11	---	---	---	430.083	DRY	DRY	DRY	DRY	DRY	DRY	---	---	11
12	---	---	---	430.083	DRY	DRY	DRY	DRY	DRY	DRY	---	---	12
13	---	---	---	430.076	DRY	DRY	DRY	DRY	DRY	DRY	---	---	13
14	---	---	---	430.069	DRY	DRY	DRY	DRY	DRY	DRY	---	---	14
15	---	---	---	430.065	429.97A	DRY	DRY	DRY	DRY	DRY	---	---	15
16	---	---	---	430.059	430.01	DRY	DRY	DRY	DRY	DRY	---	---	16
17	---	---	---	430.054	429.99	429.999	DRY	DRY	DRY	DRY	---	---	17
18	---	---	---	430.046	DRY	430.017	DRY	DRY	DRY	DRY	---	---	18
19	---	---	---	430.036	DRY	430.015	DRY	DRY	DRY	DRY	---	---	19
20	---	---	---	430.026	DRY	430.016	DRY	DRY	DRY	DRY	---	---	20
21	---	---	---	430.013	DRY	430.006	DRY	DRY	DRY	DRY	---	---	21
22	---	---	---	429.995	DRY	429.992	DRY	DRY	DRY	DRY	---	---	22
23	---	---	---	429.977	DRY	429.974	DRY	DRY	DRY	DRY	---	---	23
24	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	24
25	---	---	---	429.971	DRY	DRY	DRY	DRY	DRY	DRY	---	---	25
26	---	---	---	429.970	DRY	DRY	DRY	DRY	DRY	DRY	---	---	26
27	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	27
28	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	28
29	---		---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	29
30	---		---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	30
31	---		---		DRY		DRY	DRY		DRY		---	31
MEAN	---	---	---	---	***	***	DRY	DRY	DRY	DRY	---	---	MEAN
MAX	---	---	---	---	430.01	430.017	DRY	DRY	DRY	DRY	---	---	MAX
MIN	---	---	---	---	DRY	DRY	DRY	DRY	DRY	DRY	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 430.094 ON APR 05
MINIMUM DAILY, DRY ON MAR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 14 N
LONG 100 48 58 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1968
DRAINAGE AREA,
1 190 km²

*** - MEAN IS NOT COMPUTED DUE TO DRY PERIODS WITHIN THE MONTH
WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "MAPLE (MARSHY) LAKE NEAR PIPESTONE"

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05OE010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.145B	0.115	0.001	0.001	0	0	0	---	---	1
2	---	---	0 B	0.195B	0.103	0.462	0.001	0	0	0	---	---	2
3	---	---	0 B	0.205B	0.105	1.17	0.001	0	0	0	---	---	3
4	---	---	0 B	0.201B	0.101	1.91	0.001	0	0	0	---	---	4
5	---	---	0 B	0.200B	0.092	1.45	0.001	0	0	0	---	---	5
6	---	---	0 B	0.197B	0.079	1.04	0.172	0	0	0	---	---	6
7	---	---	0 B	0.756B	0.058	0.739	0.405	0	0	0	---	---	7
8	---	---	0 B	2.78 B	0.065	0.686	0.274	0	0	0	---	---	8
9	---	---	0 B	4.12 B	0.072	0.609	0.174	0	0	0	---	---	9
10	---	---	0 B	4.69 B	0.041	0.504	0.114	0	0	0	---	---	10
11	---	---	0 B	5.03 B	0.022	0.390	0.103	0	0	0	---	---	11
12	---	---	0 B	5.33 B	0.018	0.453	0.103	0	0	0	---	---	12
13	---	---	0 B	6.43 B	0.023	2.32	0.089	0	0	0	---	---	13
14	---	---	0 B	7.18 B	0.026	3.46	0.076	0	0	0	---	---	14
15	---	---	0 B	6.42 B	0.018	2.63	0.039	0	0	0	---	---	15
16	---	---	0 B	5.71 B	0.022	1.70	0.020	0	0	0	---	---	16
17	---	---	0 B	5.70	0.042	1.17	0.005	0	0	0	---	---	17
18	---	---	0 B	5.03	0.040	0.921	0.002	0	0	0	---	---	18
19	---	---	0 B	3.23	0.034	0.750	0.001	0	0	0	---	---	19
20	---	---	0 B	2.53	0.023	0.745	0.001	0	0	0	---	---	20
21	---	---	0 B	1.80	0.017	0.907	0.001	0	0	0	---	---	21
22	---	---	0 B	1.34	0.020	1.33	0.001	0	0	0	---	---	22
23	---	---	0 B	0.963	0.017	0.991	0.001	0	0	0	---	---	23
24	---	---	0 B	0.704	0.013	0.742	0.001	0	0	0	---	---	24
25	---	---	0 B	0.530	0.005	0.560	0	0	0	0	---	---	25
26	---	---	0 B	0.376	0.004	0.350	0	0	0	0	---	---	26
27	---	---	0 B	0.265	0.003	0.213	0	0	0	0	---	---	27
28	---	---	0 B	0.233	0.001	0.115	0	0	0	0	---	---	28
29	---	---	0 B	0.206	0.001	0.029	0	0	0	0	---	---	29
30	---		0.005B	0.164	0.001	0.001	0	0	0	0		---	30
31	---		0.082B		0.001		0	0		0		---	31
TOTAL	---	---	0.087	72.660	1.184	28.348	1.587	0	0	0	---	---	TOTAL
MEAN	---	---	0.003	2.42	0.038	0.945	0.051	0	0	0	---	---	MEAN
MAX	---	---	0.082	7.18	0.115	3.46	0.405	0	0	0	---	---	MAX
MIN	---	---	0	0.145	0.001	0.001	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 0.424
MAXIMUM DAILY, 7.18B ON APR 14
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
7.51 AT 17:48 CST ON APR 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 00 N
LONG 097 09 20 W
DRAINAGE AREA, 393 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	137
FEB	---	AUG	0
MAR	7.52	SEP	0
APR	6 280	OCT	0
MAY	102	NOV	---
JUN	2 450	DEC	---

TOTAL DISCHARGE, 8 980 dam³

MARY JANE RESERVOIR NEAR LA RIVIERE - STATION NO. 05OB014

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	467.886	467.868	467.847	468.699	468.507	468.468	468.494	468.407	468.285	468.157	468.066	468.025	1
2	467.883	467.868	467.848	468.708	468.506	468.470	468.490	468.406	468.280	468.154	468.064	468.024	2
3	467.883	467.866	467.845	468.694	468.509	468.479	468.493	468.406	468.274	468.149	468.063	468.023	3
4	467.882	467.865	467.846	468.672	468.510	468.478	468.499	468.400	468.269	468.140	468.061	468.023	4
5	467.882	467.864	467.845	468.609	468.509	468.477	468.501	468.393	468.263	468.134	468.059	468.022	5
6	467.881	467.864	467.844	468.574	468.508	468.477	468.503	468.388	468.258	468.133	468.054	468.021	6
7	467.879	467.861	467.842	468.562	468.508	468.478	468.518	468.380	468.253	468.129	468.049	468.021	7
8	467.878	467.859	467.842	468.560	468.504	468.483	468.522	468.374	468.246	468.126	468.047	468.020	8
9	467.877	467.859	467.841	468.552	468.501	468.489	468.522	468.367	468.239	468.122	468.045	468.019	9
10	467.878	467.859	467.841	468.546	468.497	468.491	468.524	468.359	468.234	468.116	468.043	468.019	10
11	467.883	467.857	467.845	468.538	468.494	468.493	468.521	468.354	468.228	468.112	468.043	468.019	11
12	467.881	467.856	467.865	468.532	468.492	468.492	468.512	468.353	468.222	468.107	468.042	468.020	12
13	467.881	467.856	467.892	468.537	468.499	468.494	468.506	468.349	468.215	468.103	468.040	468.020	13
14	467.880	467.854	467.903	468.545	468.487	468.499	468.500	468.348	468.208	468.101	468.037	468.020	14
15	467.877	467.852	467.915	468.541	468.485	468.506	468.493	468.346	468.203	468.098	468.036	468.021	15
16	467.877	467.853	467.926	468.538	468.500	468.509	468.488	468.343	468.198	468.096	468.035	468.020	16
17	467.877	467.850	467.928	468.533	468.524	468.509	468.481	468.336	468.195	468.094	468.034	468.019	17
18	467.877	467.848	467.927	468.531	468.525	468.510	468.475	468.330	468.193	468.092	468.032	468.018	18
19	467.877	467.847	467.927	468.531	468.520	468.511	468.471	468.325	468.192	468.088	468.031	468.018	19
20	467.877	467.847	467.926	468.531	468.513	468.512	468.466	468.320	468.192	468.085	468.030	468.018	20
21	467.877	467.844	467.925	468.530	468.510	468.513	468.461	468.316	468.191	468.083	468.028	468.018	21
22	467.876	467.843	467.925	468.531	468.507	468.514	468.458	468.312	468.190	468.080	468.028	468.017	22
23	467.875	467.847	467.925	468.528	468.503	468.514	468.454	468.309	468.186	468.076	468.028	468.018	23
24	467.875	467.849	467.924	468.525	468.499	468.512	468.449	468.307	468.180	468.073	468.027	468.018	24
25	467.874	467.847	467.924	468.525	468.495	468.508	468.444	468.306	468.177	468.071	468.026	468.017	25
26	467.872	467.848	467.925	468.519	468.491	468.504	468.441	468.306	468.177	468.070	468.027	468.016	26
27	467.871	467.850	467.925	468.511	468.489	468.501	468.435	468.305	468.173	468.068	468.027	468.015	27
28	467.870	467.849	467.927	468.512	468.485	468.498	468.429	468.303	468.169	468.068	468.027	468.014	28
29	467.872		467.928	468.513	468.481	468.495	468.427	468.302	468.165	468.067	468.027	468.014	29
30	467.870		467.993	468.510	468.477	468.495	468.421	468.301	468.161	468.067	468.026	468.013	30
31	467.869		468.619		468.471		468.413	468.294		468.067		468.013	31
MEAN	467.877	467.855	467.917	468.558	468.500	468.496	468.478	468.343	468.214	468.101	468.039	468.019	MEAN
MAX	467.886	467.868	468.619	468.708	468.525	468.514	468.524	468.407	468.285	468.157	468.066	468.025	MAX
MIN	467.869	467.843	467.841	468.510	468.471	468.468	468.413	468.294	468.161	468.067	468.026	468.013	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 468.201
MAXIMUM DAILY, 468.708 ON APR 02
MINIMUM DAILY, 467.841 ON MAR 09
MAXIMUM INSTANTANEOUS,
468.736 AT 22:02 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 17 14 N
LONG 098 37 27 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
74.1 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.273E	0.777	0.492	0.147	0.051	0.021	0.035	---	---	1
2	---	---	0 B	0.287B	0.758	0.569	0.134	0.051	0.022	0.033	---	---	2
3	---	---	0 B	0.181B	0.834	0.476	0.207	0.051	0.026	0.035	---	---	3
4	---	---	0 B	0.157B	1.23	0.436	0.191	0.047	0.026	0.038	---	---	4
5	---	---	0 B	0.157B	1.44	0.492	0.188	0.043	0.020	0.045	---	---	5
6	---	---	0 B	0.221B	1.37	0.446	0.319	0.043	0.018	0.063	---	---	6
7	---	---	0 B	0.233B	1.23	0.382	0.442	0.038	0.018	0.049	---	---	7
8	---	---	0 B	0.230B	1.24	3.85	0.464	0.030	0.019	0.051	---	---	8
9	---	---	0 B	0.187B	1.10	2.37	0.321	0.031	0.014	0.046	---	---	9
10	---	---	0 B	0.154B	1.01	1.24	0.222	0.031	0.018	0.046	---	---	10
11	---	---	0.010B	0.114B	0.915	0.941	0.181	0.037	0.017	0.038	---	---	11
12	---	---	0.028B	0.131B	0.771	0.711	0.156	0.043	0.017	0.036	---	---	12
13	---	---	0.060B	0.265B	0.647	0.512	0.129	0.037	0.019	0.037	---	---	13
14	---	---	0.099B	0.376B	0.551	0.640	0.126	0.038	0.021	0.035	---	---	14
15	---	---	0.153B	0.344B	0.494	0.466	0.107	0.037	0.020	0.040	---	---	15
16	---	---	0.096B	0.385B	10.1	0.389	0.101	0.038	0.022	0.035	---	---	16
17	---	---	0.048B	0.465B	9.80	0.352	0.133	0.033	0.023	0.060	---	---	17
18	---	---	0.043B	0.767B	4.40	0.307	0.115	0.031	0.023	0.060	---	---	18
19	---	---	0.040B	1.75 B	2.74	0.300	0.098	0.030	0.019	0.038	---	---	19
20	---	---	0.038B	1.60 B	1.98	0.419	0.092	0.032	0.023	0.028	---	---	20
21	---	---	0.035B	2.47 B	1.52	0.365	0.094	0.026	0.040	0.026	---	---	21
22	---	---	0.032B	3.53 B	1.32	0.308	0.085	0.026	0.039	0.033	---	---	22
23	---	---	0.029B	3.65	1.15	0.256	0.085	0.059	0.035	0.034	---	---	23
24	---	---	0.028B	4.31	0.976	0.235	0.067	0.047	0.027	0.034	---	---	24
25	---	---	0.025B	5.74	0.832	0.211	0.064	0.059	0.024	0.033	---	---	25
26	---	---	0.023B	3.96	0.737	0.194	0.078	0.045	0.023	0.034	---	---	26
27	---	---	0.022B	1.79 E	0.672	0.182	0.093	0.043	0.022	0.042	---	---	27
28	---	---	0.021B	1.22 E	0.622	0.203	0.072	0.039	0.030	0.040	---	---	28
29	---	---	0.025B	0.993E	0.611	0.172	0.064	0.032	0.037	0.038	---	---	29
30	---		0.055B	0.847A	0.522	0.155	0.059	0.027	0.038	0.041	---	---	30
31	---		0.044B		0.487		0.056	0.025		0.036		---	31
TOTAL	---	---	0.954	36.787	52.836	18.071	4.690	1.200	0.721	1.239	---	---	TOTAL
MEAN	---	---	0.031	1.23	1.70	0.602	0.151	0.039	0.024	0.040	---	---	MEAN
MAX	---	---	0.153	5.74	10.1	3.85	0.464	0.059	0.040	0.063	---	---	MAX
MIN	---	---	0	0.114	0.487	0.155	0.056	0.025	0.014	0.026	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.476
MAXIMUM DAILY, 10.1 ON MAY 16
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
20.4 AT 19:11 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 48 00 N
LONG 099 28 46 W
DRAINAGE AREA, 78.2 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	405
FEB	---	AUG	104
MAR	82.4	SEP	62.3
APR	3 180	OCT	107
MAY	4 570	NOV	---
JUN	1 560	DEC	---

TOTAL DISCHARGE, 10 100 dam³

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0	0	0	0	0	0	---	---	1
2	---	---	0B	0.100B	0	0	0	0	0	0	---	---	2
3	---	---	0B	0.860B	0	0	0	0	0	0	---	---	3
4	---	---	0B	0.410B	0	0	0	0	0	0	---	---	4
5	---	---	0B	0.187B	0	0	0	0	0	0	---	---	5
6	---	---	0B	0.076B	0	0	0	0	0	0	---	---	6
7	---	---	0B	0.054	0	0	0	0	0	0	---	---	7
8	---	---	0B	0.044	0	0	0.264	0	0	0	---	---	8
9	---	---	0B	0.042	0	0	0.478	0	0	0	---	---	9
10	---	---	0B	0.037	0	0	0.251	0	0	0	---	---	10
11	---	---	0B	0.026	0	0	0.125	0	0	0	---	---	11
12	---	---	0B	0.015	0	0	0.057	0	0	0	---	---	12
13	---	---	0B	0.007	0	0	0.027	0	0	0	---	---	13
14	---	---	0B	0.002	0	0	0.014	0	0	0	---	---	14
15	---	---	0B	0.001	0	0	0.017	0	0	0	---	---	15
16	---	---	0B	0	0	0	0.023	0	0	0	---	---	16
17	---	---	0B	0	0	0	0.020	0	0	0	---	---	17
18	---	---	0B	0	0	0	0.015	0	0	0	---	---	18
19	---	---	0B	0	0	0	0.011	0	0	0	---	---	19
20	---	---	0B	0	0	0	0.007	0	0	0	---	---	20
21	---	---	0B	0	0	0	0.004	0	0	0	---	---	21
22	---	---	0B	0	0	0	0.003	0	0	0	---	---	22
23	---	---	0B	0	0	0	0.002	0	0	0	---	---	23
24	---	---	0B	0	0	0	0.001	0	0	0	---	---	24
25	---	---	0B	0	0	0	0	0	0	0	---	---	25
26	---	---	0B	0	0	0	0	0	0	0	---	---	26
27	---	---	0B	0	0	0	0	0	0	0	---	---	27
28	---	---	0B	0	0	0	0	0	0	0	---	---	28
29	---	---	0B	0	0	0	0	0	0	0	---	---	29
30	---		0B	0	0	0	0	0	0	0	---	---	30
31	---		0B		0		0	0		0		---	31
TOTAL	---	---	0	1.861	0	0	1.319	0	0	0	---	---	TOTAL
MEAN	---	---	0	0.062	0	0	0.043	0	0	0	---	---	MEAN
MAX	---	---	0	0.860	0	0	0.478	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.013
MAXIMUM DAILY, 0.860B ON APR 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.15 AT 10:29 CST ON APR 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 30 N
LONG 100 42 10 W
DRAINAGE AREA, 317 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	114
FEB	---	AUG	0
MAR	0	SEP	0
APR	161	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 275 dam³

METIGOSHE LAKE NEAR METIGOSHE - STATION NO. 05NF804

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	650.992	651.012E	651.062E	651.002	650.962E	650.878E	650.813	---	1
2	---	---	---	650.865	650.992E	651.012	651.062	651.002E	650.952	650.873	650.813E	---	2
3	---	---	---	---	650.992	651.012E	651.072E	651.002	650.947E	650.873E	650.813	---	3
4	---	---	---	---	650.992E	651.012	651.082	650.997E	650.942	650.873	---	---	4
5	---	---	---	---	650.992	651.012E	651.072E	650.992	650.942E	650.868E	---	---	5
6	---	---	---	---	650.992E	651.012	651.062	650.987E	650.942	650.863	---	---	6
7	---	---	---	---	650.992	651.017E	651.067E	650.982	650.937E	650.863E	---	---	7
8	---	---	---	---	650.987E	651.022	651.072	650.977E	650.932	650.863	---	---	8
9	---	---	---	---	650.982	651.022E	651.072	650.972	650.932E	650.858E	---	---	9
10	---	---	---	---	650.982E	651.022	651.062	650.972E	650.932	650.853	---	---	10
11	---	---	---	---	650.982	651.017E	651.062E	650.972	650.930E	650.853E	---	---	11
12	---	---	---	---	650.977E	651.012	651.062	650.967E	650.927	650.853	---	---	12
13	---	---	---	---	650.972	651.012E	651.057E	650.962	650.925E	650.848E	---	---	13
14	---	---	---	---	650.972E	651.012	651.052	650.957E	650.923	650.843	---	---	14
15	---	---	---	---	650.972	651.007E	651.047E	650.952	650.918E	650.843E	---	---	15
16	---	---	---	---	651.007E	651.002	651.042	650.952E	650.913	650.843	---	---	16
17	---	---	---	---	651.042	651.042E	651.037E	650.952	650.913E	650.838E	---	---	17
18	---	---	---	---	651.042E	651.082	651.032	650.942E	650.913	650.833	---	---	18
19	---	---	---	---	651.042	651.087E	651.032E	650.932	650.908E	650.833E	---	---	19
20	---	---	---	---	651.042E	651.092	651.032	650.927E	650.903	650.833	---	---	20
21	---	---	---	---	651.042	651.087E	651.027E	650.922	650.903E	650.833E	---	---	21
22	---	---	---	---	651.037E	651.082	651.022	650.942E	650.903	650.833	---	---	22
23	---	---	---	---	651.032	651.077E	651.017E	650.962	650.898E	650.826E	---	---	23
24	---	---	---	---	651.032E	651.072	651.012	650.967E	650.893	650.818	---	---	24
25	---	---	---	---	651.032	651.072E	651.007E	650.972	650.893E	650.821E	---	---	25
26	---	---	---	---	651.027E	651.072	651.002	650.977E	650.893	650.823	---	---	26
27	---	---	---	---	651.022	651.072E	651.012E	650.982	650.888E	650.823E	---	---	27
28	---	---	---	---	651.022E	651.072	651.022	650.982E	650.883	650.823	---	---	28
29	---		---	---	651.022	651.067E	651.017E	650.982	650.883E	650.818E	---	---	29
30	---		---	---	651.017E	651.062	651.012	650.977E	650.883	650.813	---	---	30
31	---		---		651.012		651.007E	650.972		650.813E		---	31
MEAN	---	---	---	---	651.008	651.042	651.042	650.969	650.917	650.843	---	---	MEAN
MAX	---	---	---	---	651.042	651.092	651.082	651.002	650.962	650.878	---	---	MAX
MIN	---	---	---	---	650.972	651.002	651.002	650.922	650.883	650.813	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 651.092 ON JUN 20

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 00 05 N
LONG 100 21 58 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
174 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.002B	0.320B	0.963	0.356	0.177	0.015	0.007	0.002	---	---	1
2	---	---	0.002B	0.513B	1.08	0.434	0.120	0.008	0.002	0.003	---	---	2
3	---	---	0.002B	0.956B	1.35	0.409	0.138	0.008	0.003	0.002	---	---	3
4	---	---	0.002B	2.21 B	1.33	0.361	0.083	0.008	0.001	0.003	---	---	4
5	---	---	0.002B	2.69 B	1.14	0.406	0.139	0.006	0.001	0.007	---	---	5
6	---	---	0.002B	2.38 B	0.905	0.471	0.138	0.004	0	0.023	---	---	6
7	---	---	0.003B	2.08 B	0.799	0.432	0.167	0.001	0.001	0.019	---	---	7
8	---	---	0.003B	1.83 B	1.05	0.399	0.233	0.001	0.001	0.024	---	---	8
9	---	---	0.004B	1.60 B	1.17	0.361	0.294	0	0	0.026	---	---	9
10	---	---	0.004B	1.41 B	0.941	0.339	0.284	0	0	0.019	---	---	10
11	---	---	0.005B	0.932B	0.922	0.303A	0.173	0	0	0.018	---	---	11
12	---	---	0.005B	0.969B	0.962	0.282A	0.103	0	0	0.023	---	---	12
13	---	---	0.005B	1.23 B	0.760	0.285	0.092	0	0	0.022	---	---	13
14	---	---	0.005B	1.53 B	0.591	0.319	0.079	0.012	0	0.024	---	---	14
15	---	---	0.006B	1.89 B	0.535	0.215	0.059	0.002	0	0.029	---	---	15
16	---	---	0.007B	2.34 B	5.82 A	0.173	0.056	0.001	0	0.027	---	---	16
17	---	---	0.004B	3.40 B	9.44 A	0.125	0.057	0	0	0.026	---	---	17
18	---	---	0.016B	4.27 B	6.45	0.101	0.058	0	0	0.028	---	---	18
19	---	---	0.031B	7.97 B	4.08	0.066	0.077	0	0	0.035	---	---	19
20	---	---	0.050B	9.14 B	3.04	0.078	0.108	0.006	0.001	0.039	---	---	20
21	---	---	0.049B	8.08	2.55	0.080	0.086	0.001	0.001	0.038	---	---	21
22	---	---	0.034B	5.76	2.94	0.066	0.074	0.001	0.002	0.043	---	---	22
23	---	---	0.021B	4.52	2.84	0.053	0.058	0.001	0.001	0.042	---	---	23
24	---	---	0.021B	3.95	2.10	0.096	0.052	0.014	0.001	0.040	---	---	24
25	---	---	0.020B	3.29	1.59	0.038	0.043	0.017	0.001	0.042	---	---	25
26	---	---	0.019B	2.58	1.16	0.026	0.036	0.092	0.002	0.047	---	---	26
27	---	---	0.019B	1.85	0.803	0.018	0.035	0.146	0.004	0.034	---	---	27
28	---	---	0.040B	1.33	0.575	0.033	0.039	0.076	0.004	0.033	---	---	28
29	---	---	0.079B	1.26	0.465	0.133	0.033	0.029	0.002	0.048	---	---	29
30	---		0.148B	1.09	0.387	0.181	0.024	0.029	0.003	0.045A	---	---	30
31	---		0.232B		0.335		0.017	0.018		0.045E		---	31
TOTAL	---	---	0.842	83.370	59.073	6.639	3.132	0.496	0.038	0.856	---	---	TOTAL
MEAN	---	---	0.027	2.78	1.91	0.221	0.101	0.016	0.001	0.028	---	---	MEAN
MAX	---	---	0.232	9.14	9.44	0.471	0.294	0.146	0.007	0.048	---	---	MAX
MIN	---	---	0.002	0.320	0.335	0.018	0.017	0	0	0.002	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.630
MAXIMUM DAILY, 9.44A ON MAY 17
MINIMUM DAILY, 0 ON AUG 09
MAXIMUM INSTANTANEOUS,
10.8 AT 21:43 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 00 N
LONG 100 21 10 W
DRAINAGE AREA, 131 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	271
FEB	---	AUG	42.8
MAR	72.7	SEP	3.28
APR	7 200	OCT	74.0
MAY	5 100	NOV	---
JUN	574	DEC	---

TOTAL DISCHARGE, 13 300 dam³

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.685B	0.046	0.024	0	---	---	---	---	---	1
2	---	---	0 B	0.747B	0.041	0.016	0	---	---	---	---	---	2
3	---	---	0 B	0.820	0.111	0.008	0.001	---	---	---	---	---	3
4	---	---	0 B	0.983	0.222	0.008	0.001	---	---	---	---	---	4
5	---	---	0 B	1.31 A	0.241	0.017	0.001	---	---	---	---	---	5
6	---	---	0 B	1.73 A	0.274	0.013	0.004	---	---	---	---	---	6
7	---	---	0 B	1.04	0.277	0.006	0.001	---	---	---	---	---	7
8	---	---	0 B	1.01	0.297	0.011	0.001	---	---	---	---	---	8
9	---	---	0.001B	0.482A	0.295	0.009	0.001	---	---	---	---	---	9
10	---	---	0.007B	0.418A	0.323	0.005	0.001A	---	---	---	---	---	10
11	---	---	0.034B	0.244A	0.311	0.009	---	---	---	---	---	---	11
12	---	---	0.074B	0.243	0.293	0.015	---	---	---	---	---	---	12
13	---	---	0.048B	0.277	0.260	0.006	---	---	---	---	---	---	13
14	---	---	0.021B	0.298	0.239	0.002	---	---	---	---	---	---	14
15	---	---	0.013B	0.314	0.271	0.001	---	---	---	---	---	---	15
16	---	---	0.006B	0.304	0.486	0.001	---	---	---	---	---	---	16
17	---	---	0.002B	0.193	0.652	0.025	---	---	---	---	---	---	17
18	---	---	0.002B	0.189	0.506	0.100	---	---	---	---	---	---	18
19	---	---	0.001B	0.326	0.405	0.063	---	---	---	---	---	---	19
20	---	---	0.002B	0.465	0.343	0.240	---	---	---	---	---	---	20
21	---	---	0.004B	0.579	0.285	0.255	---	---	---	---	---	---	21
22	---	---	0.010B	0.667	0.237	0.066	---	---	---	---	---	---	22
23	---	---	0.026B	0.663	0.189	0.024	---	---	---	---	---	---	23
24	---	---	0.016B	1.41	0.160	0.009	---	---	---	---	---	---	24
25	---	---	0.009B	0.785	0.120	0.001	---	---	---	---	---	---	25
26	---	---	0.005B	0.377	0.082	0	---	---	---	---	---	---	26
27	---	---	0.003B	0.182	0.068	0	---	---	---	---	---	---	27
28	---	---	0.014B	0.121	0.048	0	---	---	---	---	---	---	28
29	---	---	0.043B	0.087	0.033	0	---	---	---	---	---	---	29
30	---		0.098B	0.05[illegible]	0.028	0	---	---	---	---	---	---	30
31	---		0.278B		0.024		---	---		---		---	31
TOTAL	---	---	0.717	17.000	7.167	0.934	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.023	0.567	0.231	0.031	---	---	---	---	---	---	MEAN
MAX	---	---	0.278	1.73	0.652	0.255	---	---	---	---	---	---	MAX
MIN	---	---	0	0.056	0.024	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.212
MAXIMUM DAILY, 1.73A ON APR 06
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.58 AT 13:26 CST ON APR 06

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 16 30 N
LONG 101 00 55 W
DRAINAGE AREA, 362 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	61.9	SEP	---
APR	1 470	OCT	---
MAY	619	NOV	---
JUN	80.7	DEC	---

TOTAL DISCHARGE, 2 230 dam³

MOOSE LAKE NEAR SPRAGUE - STATION NO. 05PD802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	346.803	346.844	346.752E	346.636E	---	---	---	1
2	---	---	---	---	---	346.813E	346.849E	346.748E	346.636	---	---	---	2
3	---	---	---	---	---	346.823	346.854	346.745	346.637E	---	---	---	3
4	---	---	---	---	---	346.828E	346.854E	346.745E	346.637	---	---	---	4
5	---	---	---	---	---	346.833	346.854E	346.745	346.630E	---	---	---	5
6	---	---	---	---	---	346.833E	346.854	346.735E	346.624E	---	---	---	6
7	---	---	346.819	---	---	346.833E	346.869E	346.725	346.617	---	---	---	7
8	---	---	---	---	---	346.833	346.884	346.718E	346.610E	---	---	---	8
9	---	---	---	---	---	346.843E	346.884E	346.712E	346.604E	---	---	---	9
10	---	---	---	346.899	---	346.853	346.884	346.705	346.597	---	---	---	10
11	---	---	---	---	---	346.853E	346.874E	346.706E	346.597E	---	---	---	11
12	---	---	---	---	---	346.853	346.864E	346.706	346.597	346.555	---	---	12
13	---	---	---	---	---	346.853E	346.854	346.706E	346.592E	---	---	---	13
14	---	---	---	---	---	346.853E	346.844E	346.706	346.587	---	---	---	14
15	---	---	---	---	346.822	346.853	346.834	346.703E	346.577E	---	---	---	15
16	---	---	---	---	346.825E	346.853E	346.825E	346.699E	346.567E	---	---	---	16
17	---	---	---	---	346.829E	346.853	346.815	346.696	346.557	---	---	---	17
18	---	---	---	346.864	346.832	346.853E	346.812E	346.692E	346.567E	---	---	---	18
19	---	---	---	---	346.832E	346.853	346.808E	346.687E	346.577	---	---	---	19
20	---	---	---	---	346.832	346.853E	346.805	346.683E	346.577E	---	---	---	20
21	---	---	---	---	346.817E	346.853E	346.800E	346.678E	346.577	---	---	---	21
22	---	---	---	---	346.802	346.853	346.795	346.674E	---	---	---	---	22
23	---	---	---	---	346.802E	346.849E	346.795E	346.669E	---	---	---	---	23
24	---	---	---	---	346.802E	346.844	346.795	346.665E	---	---	---	---	24
25	---	---	---	346.834	346.802	346.844E	346.788E	346.660E	---	---	---	---	25
26	---	---	---	---	346.802E	346.844	346.782E	346.656	---	---	---	---	26
27	---	---	---	---	346.802	346.844E	346.775	346.651E	---	---	---	---	27
28	---	---	---	---	346.802E	346.844E	346.765E	346.646	---	---	---	---	28
29	---		---	---	346.802	346.844	346.755	346.643E	---	---	---	---	29
30	---		---	---	346.802E	346.844E	346.755E	346.639E	---	---	---	---	30
31	---		---		346.803E		346.755	346.636		---		---	31
MEAN	---	---	---	---	---	346.843	346.823	346.695	---	---	---	---	MEAN
MAX	---	---	---	---	---	346.853	346.884	346.752	---	---	---	---	MAX
MIN	---	---	---	---	---	346.803	346.755	346.636	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 11 52 N
LONG 095 20 14 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1957

DRAINAGE AREA,
24.3 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	10.0 B	1.66	0.573	0.964	0.144	0	0	---	---	1
2	---	---	0 B	13.3 B	1.49	0.696	0.849	0.139	0	0	---	---	2
3	---	---	0 B	17.6 B	1.32	0.939	0.896	0.161	0	0	---	---	3
4	---	---	0 B	28.4 B	1.22	0.914	1.05	0.156	0	0	---	---	4
5	---	---	0 B	28.6 B	1.13	4.27	1.15	0.145	0	0	---	---	5
6	---	---	0 B	28.8 B	1.05	5.28	1.18	0.116	0	0	---	---	6
7	---	---	0 B	26.1 B	0.986	3.84	1.73	0.079	0	0	---	---	7
8	---	---	0 B	19.9 B	0.923	3.29	2.13	0.054	0	0	---	---	8
9	---	---	0 B	14.9 B	0.889	3.08	2.06	0.043	0	0	---	---	9
10	---	---	0 B	13.1 B	0.811	2.64	4.46	0.064	0	0	---	---	10
11	---	---	0 B	11.2 B	0.764	2.73	4.47	0.074	0	0	---	---	11
12	---	---	0 B	10.3 B	0.701	2.89	3.20	0.073	0	0	---	---	12
13	---	---	0 B	9.05B	0.658	2.89	2.43	0.062	0	0	---	---	13
14	---	---	0 B	7.19B	0.599	4.00	1.86	0.053	0	0	---	---	14
15	---	---	0.044B	5.72B	0.553	3.46	1.32	0.039	0	0	---	---	15
16	---	---	0.193B	5.20B	0.526	2.96	0.956	0.015	0	0	---	---	16
17	---	---	0.783B	4.91B	0.526	2.61	0.768	0.009	0	0	---	---	17
18	---	---	0.601B	4.65	0.558	2.42	0.663	0.006	0	0	---	---	18
19	---	---	0.464B	4.25	0.534	2.27	0.555	0.001	0	0	---	---	19
20	---	---	0.490B	4.05	0.931	2.10	0.456	0	0	0	---	---	20
21	---	---	0.698B	3.75	1.51	2.04	0.308	0	0.002	0	---	---	21
22	---	---	0.422B	3.44	1.42	1.84	0.319	0	0.118	0	---	---	22
23	---	---	0.213B	3.05	1.31	2.57	0.263	0	0.069	0	---	---	23
24	---	---	0.167B	2.66	1.16	3.18	0.278	0	0.014	0	---	---	24
25	---	---	0.120B	2.45	1.11	2.79	0.272	0	0	0	---	---	25
26	---	---	0.100B	2.25	1.02	2.40	0.247	0	0	0	---	---	26
27	---	---	0.075B	2.05	0.932	2.05	0.200	0	0	0	---	---	27
28	---	---	0.217B	1.93	0.824	1.74	0.165	0	0	0	---	---	28
29	---	---	0.582B	1.85	0.733	1.46	0.148	0	0	0.001	---	---	29
30	---		1.54 B	1.71	0.669	1.21	0.170	0	0	0.002A	---	---	30
31	---		3.92 B		0.597		0.150	0		0.002E		---	31
TOTAL	---	---	10.649	292.36	29.114	75.132	35.747	1.453	0.203	0.005	---	---	TOTAL
MEAN	---	---	0.344	9.75	0.939	2.50	1.15	0.047	0.007	0	---	---	MEAN
MAX	---	---	3.92	28.8	1.66	5.28	4.47	0.161	0.118	0.002	---	---	MAX
MIN	---	---	0	1.71	0.526	0.573	0.148	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.81
MAXIMUM DAILY, 28.8B ON APR 06
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
30.5B AT 22:13 CST ON APR 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 29 22 N
LONG 097 28 51 W
DRAINAGE AREA, 2 200 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 090
FEB	---	AUG	126
MAR	920	SEP	17.5
APR	25 300	OCT	0.432
MAY	2 520	NOV	---
JUN	6 490	DEC	---

TOTAL DISCHARGE, 38 500 dam³

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.179B	0.202B	0.172B	0.212B	23.3	32.1	28.7A	23.1 A	0.418	0.556	11.6	3.68B	1
2	0.177B	0.203B	0.177B	0.207B	23.5	34.5	27.5A	22.7 A	1.90	0.749	12.4	3.77B	2
3	0.176B	0.205B	0.184B	0.229B	24.1	31.9	27.0	18.4 A	0.515	0.499	12.0	3.96B	3
4	0.174B	0.207B	0.186B	0.243B	24.1	27.7	26.3	20.1 A	0.417	0.437	16.9	4.15B	4
5	0.175B	0.205B	0.185B	0.250B	24.3	31.7	26.7	21.4 A	0.483	0.430	14.2	4.15B	5
6	0.180B	0.203B	0.174B	0.271B	24.3	30.4	29.5	21.6 A	0.403	0.433	12.9 B	3.95B	6
7	0.172B	0.200B	0.183B	0.291B	24.1	31.0	26.6	21.5 A	0.512	0.448	14.5	3.94B	7
8	0.184B	0.192B	0.177B	0.313B	24.3	30.8	26.6A	19.0 A	0.438	0.459	12.3	3.85B	8
9	0.185B	0.189B	0.184B	0.333B	25.7	30.3	25.9A	18.2 A	0.405	0.478	8.59	3.83B	9
10	0.186B	0.187B	0.184B	0.354B	25.8	29.3	27.1A	20.3 A	0.425	0.552	7.29B	3.81B	10
11	0.189B	0.185B	0.173B	0.375B	25.1	29.3	26.0	21.0 A	0.418	0.497	6.76B	3.37B	11
12	0.185B	0.190B	0.179B	0.395B	26.0	31.2	26.0	20.0 A	0.888	0.748	7.48	3.72B	12
13	0.193B	0.185B	0.176B	0.300	25.7	29.9	26.8	19.4 A	0.566	0.600	7.65B	4.52B	13
14	0.193B	0.191B	0.184B	0.200	26.1	32.3	24.8	19.4 A	0.480	0.505	7.40	4.20B	14
15	0.194B	0.184B	0.190B	0.200	26.2	33.2	24.1	20.5 A	0.466	0.476	7.17	3.38B	15
16	0.198B	0.181B	0.202B	0.200	22.7	32.4	24.7	19.0	0.637	0.491	7.06	3.22B	16
17	0.197B	0.186B	0.208B	0.200	22.8	31.5A	23.1A	18.8	1.80	0.482	7.08	3.38B	17
18	0.196B	0.190B	0.210B	0.160	24.1	32.0	23.9	19.1	0.530	0.835	7.04	3.47B	18
19	0.199B	0.194B	0.216B	0.100	24.2	31.1	23.7A	19.1	0.512	1.41	5.42	3.58B	19
20	0.200B	0.198B	0.218B	7.74	25.1	29.5	23.1A	18.9	0.553	0.509	3.76	3.72B	20
21	0.199B	0.193B	0.217B	12.9	26.8	29.4A	23.7A	10.1	0.477	0.486	3.85	3.60B	21
22	0.193B	0.189B	0.216B	12.7	27.6	29.8	24.1	1.35	0.487	0.489	3.91B	3.36B	22
23	0.202B	0.177B	0.218B	14.9	29.9	31.6	24.4	1.20	0.537	6.49	4.16B	3.23B	23
24	0.212B	0.178B	0.226B	17.9	31.3	31.5	24.4	0.567	0.580	15.8	4.11B	3.12B	24
25	0.196B	0.181B	0.225B	18.6	31.1	30.3	23.7	0.466	0.611	17.5	4.51B	3.10B	25
26	0.205B	0.184B	0.222B	19.5	31.0	31.1A	24.6A	0.444	0.583	13.5	4.23B	3.14B	26
27	0.211B	0.184B	0.220B	20.5	31.2	31.7A	25.1A	0.541	0.542	12.9	3.93B	3.18B	27
28	0.207B	0.182B	0.217B	21.9	30.9	29.8A	22.7	0.476	0.539	18.3 A	3.92B	2.97B	28
29	0.203B		0.215B	22.9	32.0	29.6A	21.5A	0.429	0.577	14.7	3.92B	3.13B	29
30	0.204B		0.222B	22.7	32.3	29.0A	22.7A	0.542	1.05	15.2	3.88B	3.53B	30
31	0.202B		0.219B		33.0		23.2A	0.762		14.6		3.58B	31
TOTAL	5.966	5.347	6.179	197.073	828.6	925.9	778.2	418.377	18.749	141.559	229.92	111.60	TOTAL
MEAN	0.193	0.191	0.199	6.57	26.7	30.9	25.1	13.5	0.625	4.57	7.66	3.60	MEAN
MAX	0.212	0.207	0.226	22.9	33.0	34.5	29.5	23.1	1.90	18.3	16.9	4.52	MAX
MIN	0.172	0.177	0.172	0.100	22.7	27.7	21.5	0.429	0.403	0.430	3.76	2.97	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 10.0
MAXIMUM DAILY, 34.5 ON JUN 02
MINIMUM DAILY, 0.100 ON APR 19
MAXIMUM INSTANTANEOUS,
38.1 AT 15:35 CST ON JUN 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 27 00 N
LONG 099 58 00 W
DRAINAGE AREA, 8 700 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	515	JUL	67 200
FEB	462	AUG	36 100
MAR	534	SEP	1 620
APR	17 000	OCT	12 200
MAY	71 600	NOV	19 900
JUN	80 000	DEC	9 640

TOTAL DISCHARGE, 317 000 dam³

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05OB021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0	0	0	1.20 B	0.087	0	0.038	0	0.011	0	0	0	1
2	0	0	0	0.881B	0.099	0	0.033	0	0.001	0	0	0	2
3	0	0	0	2.08 B	0.119	0	0.028	0	0	0	0	0	3
4	0	0	0	2.76 B	0.102	0	0.021	0	0	0	0	0	4
5	0	0	0	2.47 B	0.084	0	0.018	0	0	0	0	0	5
6	0	0	0	2.94 B	0.072	0	0.013	0	0	0	0	0	6
7	0	0	0	3.29 B	0.067	0	0.017	0	0	0	0	0	7
8	0	0	0	2.84 B	0.063	0.003	0.014	0	0	0	0	0	8
9	0	0	0	1.45 B	0.056	1.60	0.009	0	0	0	0	0	9
10	0	0	0 B	0.939B	0.052	1.19	0.004	0	0	0	0	0	10
11	0	0	0 B	0.398B	0.045	0.842	0.001	0	0	0	0	0	11
12	0	0	0 B	0.327B	0.038	0.730	0.001	0	0	0	0	0	12
13	0	0	0.169B	0.223B	0.032	0.892	0.001	0	0	0	0	0	13
14	0	0	0.064B	0.420B	0.029	1.04	0	0	0	0	0	0	14
15	0	0	0.020B	0.772B	0.023	0.935	0	0	0	0	0	0	15
16	0	0	0.007B	0.558	0.039	0.534	0	0	0	0	0	0	16
17	0	0	0.006B	0.493	0.036	0.792	0	0	0	0	0	0	17
18	0	0	0.003B	0.233	0.028	1.46	0	0	0	0	0	0	18
19	0	0	0.001B	0.185	0.022	0.915	0	0	0	0	0	0	19
20	0	0	0.004B	0.221	0.018	0.510	0	0	0	0	0	0	20
21	0	0	0.026B	0.159	0.016	0.432	0	0	0	0	0	0	21
22	0	0	0.031B	0.430	0.013	0.334	0	0	0	0	0	0	22
23	0	0	0.011B	0.319	0.008	0.228	0	0	0	0	0	0	23
24	0	0	0.010B	0.259	0.001	0.166	0	0	0	0	0	0	24
25	0	0	0.006B	0.215	0	0.125	0	0	0	0	0	0	25
26	0	0	0.004B	0.169	0	0.095	0	0	0	0	0	0	26
27	0	0	0.002B	0.117	0	0.076	0	0	0	0	0	0	27
28	0	0	0.003B	0.103	0	0.062	0	0	0	0	0	0	28
29	0		0.093B	0.101	0	0.052	0	0.004	0	0	0	0	29
30	0		0.867B	0.095	0	0.042	0	0.054	0	0	0	0	30
31	0		0.752B		0		0	0.033		0		0	31
TOTAL	0	0	2.079	26.647	1.149	13.055	0.198	0.091	0.012	0	0	0	TOTAL
MEAN	0	0	0.067	0.888	0.037	0.435	0.006	0.003	0	0	0	0	MEAN
MAX	0	0	0.867	3.29	0.119	1.60	0.038	0.054	0.011	0	0	0	MAX
MIN	0	0	0	0.095	0	0	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.118
MAXIMUM DAILY, 3.29B ON APR 07
MINIMUM DAILY, 0 ON JAN 01
MAXIMUM INSTANTANEOUS,
3.89B AT 07:47 CST ON APR 07

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 00 N
LONG 098 27 15 W

DRAINAGE AREA, 262 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	17.1
FEB	0	AUG	7.86
MAR	180	SEP	1.04
APR	2 300	OCT	0
MAY	99.3	NOV	0
JUN	1 130	DEC	0

TOTAL DISCHARGE, 3 740 dam³

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	136B	123B	123B	140B	207B	364	473	516	458	414	258	141B	1
2	135B	123B	124B	141B	213B	276	443	532	492	365	285	140B	2
3	134B	123B	124B	142B	219B	285	391	500	515	415	249	139B	3
4	134B	123B	124B	143B	226B	329	395	460	486	363	240B	137B	4
5	133B	123B	125B	144B	234B	361	434	490	515	305	230B	136B	5
6	133B	123B	125B	145B	244B	371	457	511	462	307	223B	134B	6
7	132B	123B	126B	146B	252B	365	464	532	487	315	216B	132B	7
8	132B	123B	126B	148B	260B	371	467	524	480	337	209B	131B	8
9	131B	122B	126B	149B	284	385	446	452	449	360	204B	130B	9
10	131B	122B	126B	150B	307	390	449	474	461	422	200B	128B	10
11	131B	122B	127B	152B	301	407	468	496	457	440	194B	127B	11
12	130B	122B	127B	153B	300	427	482	507	426	349	190B	126B	12
13	130B	122B	128B	155B	312	387	510	548	435	381	186B	125B	13
14	129B	122B	128B	157B	320	360	521	477	449	369	181B	124B	14
15	128B	122B	128B	158B	324	402	505	473	383	353	178B	123B	15
16	128B	122B	129B	160B	298	432	502	477	412	343	175B	122B	16
17	129B	122B	130B	162B	276	419	495	457	484	327	171B	121B	17
18	128B	122B	130B	164B	308	421	481	458	490	335	169B	120B	18
19	127B	122B	131B	166B	342	431	476	486	409	351	165B	119B	19
20	127B	122B	131B	168B	346	419	467	500	394	354	163B	118B	20
21	127B	123B	132B	171B	351	406	461	517	353	341	161B	118B	21
22	126B	123B	132B	174B	352	387	485	526	335	321	158B	116B	22
23	126B	123B	133B	177B	351	408	498	541	397	344	157B	115B	23
24	126B	123B	133B	179B	358	431	512	514	410	338	155B	113B	24
25	126B	123B	134B	181B	359	418	472	461	412	390	153B	113B	25
26	125B	123B	135B	185B	364	406	481	453	420	380	151B	112B	26
27	125B	123B	136B	191B	339	418	512	469	354	279	149B	111B	27
28	125B	123B	137B	194B	325	411	543	480	353	282	147B	111B	28
29	124B		137B	198B	361A	418	461	502	382	356	145B	110B	29
30	124B		138B	202B	367	443	482	498	440	316	143B	109B	30
31	124B		139B		379		507	521		290		109B	31
TOTAL	3 995	3 432	4 024	4 895	9 487	11 748	14 740	15 349	13 000	10 842	5 605	3 810	TOTAL
MEAN	129	123	130	163	306	392	475	495	433	350	187	123	MEAN
MAX	136	123	139	202	379	443	543	548	515	440	285	141	MAX
MIN	124	122	123	140	207	276	391	452	335	279	143	109	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 277
MAXIMUM DAILY, 548 ON AUG 13
MINIMUM DAILY, 109B ON DEC 30
MAXIMUM INSTANTANEOUS,
566 AT 15:35 CST ON JUL 28

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 14 39 N
LONG 097 35 27 W

A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	345 000	JUL	1 270 000
FEB	297 000	AUG	1 330 000
MAR	348 000	SEP	1 120 000
APR	423 000	OCT	937 000
MAY	820 000	NOV	484 000
JUN	1 020 000	DEC	329 000

TOTAL DISCHARGE, 8 720 000 dam³

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 740	1 530	1 300	1 130	972	829	821	847	1 130	2 010	2 180	1 960	1
2	1 730	1 530	1 310	1 120	967	802	771	851	1 140	2 050	2 150	1 980	2
3	1 730	1 520	1 300	1 110	963	797	767	856	1 150	2 060	2 090	1 960	3
4	1 730	1 550	1 300	1 120	971	815	773	849	1 200	2 060	2 090	1 910	4
5	1 680	1 520	1 300	1 130	964	818	770	845	1 280	2 080	2 080	1 910	5
6	1 690	1 530	1 300	1 110	971	828	762	907	1 270	2 060	2 080	1 960	6
7	1 680	1 500	1 310	1 110	972	803	767	923	1 280	2 070	2 080	1 940	7
8	1 660	1 500	1 310	1 110	958	799	744	914	1 290	2 060	2 060	1 890	8
9	1 650	1 510	1 290	1 100	989	812	774	979	1 290	2 070	1 970	1 890	9
10	1 640	1 520	1 300	1 100	985	805	784	929	1 370	2 060	1 920	1 970	10
11	1 660	1 510	1 300	1 100	961	739	786	924	1 440	2 090	1 930	1 970	11
12	1 660	1 500	1 260	1 100	962	862	781	927	1 450	2 060	1 930	1 950	12
13	1 630	1 500	1 240	1 120	962	817	818	980	1 450	2 050	1 890	1 920	13
14	1 640	1 490	1 230	1 120	896	799	812	994	1 430	2 070	1 940	1 930	14
15	1 640	1 480	1 230	1 120	868	806	808	989	1 440	2 070	1 940	1 960	15
16	1 630	1 470	1 270	1 120	883	814	888	986	1 420	2 060	1 920	1 950	16
17	1 620	1 460	1 260	1 110	881	823	952	953	1 600	2 060	1 920	1 980	17
18	1 580	1 460	1 260	1 110	901	823	902	959	1 720	2 060	1 930	1 970	18
19	1 590	1 450	1 220	1 110	899	826	893	958	1 710	2 070	1 920	2 020	19
20	1 600	1 440	1 200	1 100	896	828	887	1 020	1 700	2 060	1 890	1 950	20
21	1 610	1 440	1 190	1 090	853	775	883	1 090	1 700	2 070	1 910	1 920	21
22	1 630	1 440	1 190	1 100	825	806	855	1 100	1 730	2 060	1 900	1 910	22
23	1 590	1 450	1 180	997	849	791	855	1 110	1 700	2 150	1 900	1 870	23
24	1 600	1 440	1 180	957	867	802	846	1 140	1 790	2 060	1 910	1 830	24
25	1 590	1 440	1 180	959	828	717	849	1 140	1 890	2 090	1 880	1 780	25
26	1 590	1 330	1 140	972	825	776	849	1 130	1 900	2 060	1 970	1 770	26
27	1 550	1 310	1 120	1 010	814	776	886	1 140	1 900	2 060	1 950	1 770	27
28	1 570	1 310	1 130	964	794	791	891	1 160	1 900	2 050	1 960	1 790	28
29	1 570		1 110	973	781	799	880	1 160	1 740	2 050	1 900	1 770	29
30	1 560		1 130	988	797	774	864	1 140	1 790	2 070	1 930	1 730	30
31	1 550		1 140		819		852	1 130		2 080		1 750	31
TOTAL	50 590	41 130	38 180	32 260	27 873	24 072	25 770	31 030	45 800	64 030	59 120	58 860	TOTAL
MEAN	1 630	1 470	1 230	1 080	899	802	831	1 000	1 530	2 070	1 970	1 900	MEAN
MAX	1 740	1 550	1 310	1 130	989	862	952	1 160	1 900	2 150	2 180	2 020	MAX
MIN	1 550	1 310	1 110	957	781	717	744	845	1 130	2 010	1 880	1 730	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1 370
MAXIMUM DAILY, 2 180 ON NOV 01
MINIMUM DAILY, 717 ON JUN 25

DATA CONTRIBUTED BY -
MANITOBA HYDRO

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 54 29 53 N
LONG 098 02 53 W

REGULATED SINCE 1975

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 370 000	JUL	2 230 000
FEB	3 550 000	AUG	2 680 000
MAR	3 300 000	SEP	3 960 000
APR	2 790 000	OCT	5 530 000
MAY	2 410 000	NOV	5 110 000
JUN	2 080 000	DEC	5 090 000

TOTAL DISCHARGE, 43 100 000 dam³

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 950B	1 740B	1 500B	1 300B	1 400B	1 310	1 280	1 440	1 700	2 240	2 560	2 280B	1
2	1 940B	1 730B	1 490B	1 290B	1 410B	1 330	1 290	1 450	1 690	2 310	2 560	2 290B	2
3	1 920B	1 730B	1 480B	1 290B	1 430B	1 300	1 300	1 450	1 670	2 370	2 560	2 290B	3
4	1 910B	1 730B	1 470B	1 280B	1 440B	1 260	1 310	1 450	1 680	2 350	2 560	2 300B	4
5	1 890B	1 720B	1 460B	1 280B	1 460B	1 260	1 280	1 440	1 690	2 370	2 570	2 300B	5
6	1 880B	1 720B	1 460B	1 280B	1 490	1 270	1 270	1 450	1 740	2 380	2 580	2 300B	6
7	1 870B	1 710B	1 450B	1 280B	1 500	1 280	1 280	1 460	1 760	2 390	2 600	2 300B	7
8	1 860B	1 710B	1 440B	1 280B	1 500	1 270	1 300	1 460	1 740	2 400	2 600	2 300B	8
9	1 850B	1 700B	1 440B	1 280B	1 500	1 260	1 310	1 480	1 770	2 420	2 590	2 300B	9
10	1 840B	1 700B	1 430B	1 280B	1 500	1 270	1 310	1 470	1 790	2 430	2 550	2 290B	10
11	1 830B	1 690B	1 430B	1 290B	1 510	1 260	1 310	1 470	1 810	2 450	2 530	2 280B	11
12	1 820B	1 680B	1 420B	1 290B	1 520	1 280	1 310	1 480	1 850	2 480	2 500B	2 270B	12
13	1 810B	1 670B	1 420B	1 290B	1 520	1 300	1 310	1 470	1 880	2 520	2 480B	2 260B	13
14	1 800B	1 660B	1 410B	1 290B	1 520	1 310	1 330	1 500	1 890	2 500	2 470B	2 250B	14
15	1 800B	1 650B	1 410B	1 300B	1 510	1 270	1 340	1 510	1 880	2 500	2 450B	2 240B	15
16	1 790B	1 650B	1 400B	1 300B	1 500	1 250	1 360	1 500	1 890	2 490	2 430B	2 230B	16
17	1 780B	1 630B	1 400B	1 300B	1 500	1 280	1 390	1 500	1 890	2 520	2 410B	2 230B	17
18	1 770B	1 620B	1 390B	1 300B	1 480	1 300	1 400	1 510	1 930	2 520	2 400B	2 220B	18
19	1 760B	1 610B	1 380B	1 300B	1 450	1 310	1 410	1 510	1 980	2 540	2 380B	2 220B	19
20	1 760B	1 600B	1 380B	1 300B	1 450	1 320	1 420	1 510	2 040	2 540	2 360B	2 220B	20
21	1 750B	1 590B	1 370B	1 310B	1 460	1 320	1 430	1 530	2 080	2 520	2 350B	2 220B	21
22	1 750B	1 580B	1 360B	1 320B	1 430	1 310	1 420	1 560	2 080	2 510	2 330B	2 210B	22
23	1 740B	1 570B	1 350B	1 320B	1 420	1 300	1 420	1 580	2 060	2 510	2 310B	2 200B	23
24	1 740B	1 560B	1 340B	1 330B	1 420	1 280	1 420	1 600	2 070	2 510	2 300B	2 190B	24
25	1 740B	1 550B	1 340B	1 340B	1 410	1 300	1 430	1 610	2 120	2 510	2 280B	2 180B	25
26	1 740B	1 540B	1 330B	1 350B	1 390	1 300	1 430	1 620	2 150	2 520	2 280B	2 160B	26
27	1 740E	1 530B	1 320B	1 350B	1 380	1 290	1 430	1 610	2 180	2 540	2 270B	2 150B	27
28	1 740E	1 520B	1 320B	1 360B	1 390	1 300	1 430	1 620	2 220	2 530	2 270B	2 140B	28
29	1 740E		1 310B	1 370B	1 340	1 310	1 440	1 620	2 210	2 520	2 280B	2 120B	29
30	1 740E		1 310B	1 390B	1 320	1 290	1 430	1 650	2 210	2 520	2 280B	2 110B	30
31	1 740B		1 300B		1 320		1 440	1 670		2 540		2 100B	31
TOTAL	55 990	46 090	43 310	39 240	44 870	38 690	42 230	47 180	57 650	76 450	73 090	69 150	TOTAL
MEAN	1 810	1 650	1 400	1 310	1 450	1 290	1 360	1 520	1 920	2 470	2 440	2 230	MEAN
MAX	1 950	1 740	1 500	1 390	1 520	1 330	1 440	1 670	2 220	2 540	2 600	2 300	MAX
MIN	1 740	1 520	1 300	1 280	1 320	1 250	1 270	1 440	1 670	2 240	2 270	2 100	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1 740
MAXIMUM DAILY, 2 600 ON NOV 07
MINIMUM DAILY, 1 250 ON JUN 16
MAXIMUM INSTANTANEOUS,
2 600 AT 16:10 CST ON NOV 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 46 30 N
LONG 097 55 50 W
DRAINAGE AREA, 997 000 km²

B - ICE CONDITIONS

REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 840 000	JUL	3 650 000
FEB	3 980 000	AUG	4 080 000
MAR	3 740 000	SEP	4 980 000
APR	3 390 000	OCT	6 610 000
MAY	3 980 000	NOV	6 310 000
JUN	3 340 000	DEC	5 970 000

TOTAL DISCHARGE, 54 800 000 dam³

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 840	1 700	1 570	1 330	1 370	1 300	1 230	1 180	1 640	1 500	2 000	2 030	1
2	1 840	1 700	1 500	1 300	1 390	1 310	1 170	1 270	1 640	1 550	2 000	2 060	2
3	1 840	1 700	1 480	1 280	1 360	1 350	1 250	1 310	1 630	1 660	2 020	1 920	3
4	1 840	1 680	1 490	1 290	1 390	1 370	1 120	1 290	1 630	1 790	2 130	1 920	4
5	1 840	1 670	1 490	1 270	1 390	1 310	1 230	1 320	1 630	1 910	2 100	1 950	5
6	1 830	1 670	1 500	1 270	1 470	1 300	1 160	1 300	1 630	1 980	2 050	1 980	6
7	1 810	1 660	1 500	1 290	1 410	1 320	1 200	1 230	1 680	1 980	1 950	1 940	7
8	1 810	1 660	1 490	1 240	1 380	1 290	1 160	1 250	1 710	1 970	1 920	1 920	8
9	1 800	1 630	1 490	1 270	1 430	1 300	1 090	1 190	1 660	1 990	1 970	1 910	9
10	1 790	1 610	1 490	1 280	1 410	1 310	1 160	1 410	1 700	1 990	1 950	1 920	10
11	1 810	1 610	1 490	1 270	1 510	1 270	1 200	1 360	1 700	1 990	1 890	1 930	11
12	1 820	1 590	1 440	1 270	1 560	1 280	1 250	1 420	1 700	1 990	1 820	1 930	12
13	1 820	1 580	1 420	1 240	1 590	1 220	1 350	1 340	1 700	1 990	1 790	1 930	13
14	1 800	1 600	1 480	1 260	1 460	1 280	1 280	1 280	1 700	1 990	1 820	1 960	14
15	1 790	1 580	1 470	1 240	1 480	1 330	1 150	1 310	1 670	1 990	1 870	1 960	15
16	1 790	1 580	1 470	1 250	1 480	1 290	1 120	1 310	1 700	1 990	1 910	1 960	16
17	1 780	1 570	1 480	1 250	1 490	1 260	1 060	1 310	1 680	1 990	1 930	1 960	17
18	1 770	1 590	1 480	1 250	1 480	1 280	1 180	1 320	1 680	1 980	1 980	1 950	18
19	1 760	1 580	1 480	1 270	1 510	1 210	1 170	1 310	1 680	1 990	2 020	1 930	19
20	1 750	1 580	1 480	1 280	1 470	1 190	1 160	1 310	1 550	1 990	2 070	1 930	20
21	1 730	1 580	1 480	1 280	1 480	1 200	1 170	1 300	1 560	1 990	2 040	1 930	21
22	1 730	1 590	1 480	1 250	1 470	1 210	1 210	1 290	1 560	1 990	2 080	1 930	22
23	1 730	1 590	1 480	1 310	1 490	1 220	1 200	1 290	1 410	1 990	2 100	1 930	23
24	1 720	1 580	1 420	1 290	1 480	1 270	1 160	1 300	1 320	2 000	2 100	1 930	24
25	1 700	1 580	1 390	1 320	1 480	1 240	1 160	1 300	1 340	2 000	2 100	1 940	25
26	1 700	1 530	1 450	1 340	1 480	1 210	1 200	1 310	1 350	2 000	2 100	1 940	26
27	1 710	1 580	1 360	1 390	1 480	1 240	1 290	1 470	1 350	2 000	2 080	1 930	27
28	1 730	1 530	1 380	1 330	1 390	1 160	1 290	1 550	1 350	2 000	2 040	1 940	28
29	1 730		1 320	1 350	1 440	1 210	1 260	1 540	1 390	2 000	2 030	1 930	29
30	1 700		1 330	1 370	1 420	1 270	1 170	1 540	1 440	2 000	2 030	1 940	30
31	1 700		1 280		1 420		1 220	1 610		2 000		1 930	31
TOTAL	55 010	45 100	45 060	38 630	45 060	38 000	37 020	41 520	47 380	60 190	59 890	60 260	TOTAL
MEAN	1 770	1 610	1 450	1 290	1 450	1 270	1 190	1 340	1 580	1 940	2 000	1 940	MEAN
MAX	1 840	1 700	1 570	1 390	1 590	1 370	1 350	1 610	1 710	2 000	2 130	2 060	MAX
MIN	1 700	1 530	1 280	1 240	1 360	1 160	1 060	1 180	1 320	1 500	1 790	1 910	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1 570
MAXIMUM DAILY, 2 130 ON NOV 04
MINIMUM DAILY, 1 060 ON JUL 17

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 56 02 20 N
LONG 096 31 30 W
DRAINAGE AREA, 1 010 000 km²

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 750 000	JUL	3 200 000
FEB	3 900 000	AUG	3 590 000
MAR	3 890 000	SEP	4 090 000
APR	3 340 000	OCT	5 200 000
MAY	3 890 000	NOV	5 170 000
JUN	3 280 000	DEC	5 210 000

TOTAL DISCHARGE, 49 500 000 dam³

DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER AT KETTLE GENERATING STATION - STATION NO. 05UF006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 950	3 350	2 100	1 410	2 570	3 310	1 700	2 190	1 610	2 530	3 170	3 090	1
2	2 670	3 220	2 820	2 730	2 590	3 290	2 700	1 460	1 250	3 000	2 980	2 940	2
3	2 670	3 220	2 710	2 410	2 620	2 080	3 230	2 370	1 460	2 970	1 700	2 980	3
4	2 990	1 940	2 370	2 600	2 560	2 860	2 360	1 400	1 280	3 160	1 930	3 030	4
5	3 150	1 640	3 470	2 980	1 750	2 510	2 310	768	2 590	3 070	2 910	2 900	5
6	2 940	2 500	3 230	2 820	1 300	2 810	2 030	1 900	2 890	1 750	2 940	3 050	6
7	2 520	2 580	2 790	2 190	2 870	2 760	1 750	2 660	2 710	1 590	3 130	2 780	7
8	2 900	2 820	2 620	1 450	2 600	2 960	1 800	2 720	1 640	2 800	2 990	2 150	8
9	2 950	3 060	2 230	2 150	2 650	2 560	2 550	2 620	1 410	2 950	3 040	1 340	9
10	3 030	3 180	1 810	2 690	2 330	1 760	2 270	2 610	2 640	3 190	2 360	3 000	10
11	3 500	2 520	1 950	2 650	1 730	2 900	1 980	1 600	2 760	3 060	2 090	2 630	11
12	3 590	3 170	2 590	2 270	1 400	3 060	1 730	3 190	2 830	3 300	3 180	2 710	12
13	2 930	3 350	2 720	1 410	3 130	2 560	2 690	2 790	2 490	3 020	3 020	3 300	13
14	2 470	3 240	2 850	1 360	1 800	3 000	3 080	2 510	2 440	1 320	2 740	3 130	14
15	2 840	3 060	3 170	1 050	2 530	2 830	2 570	2 460	1 530	3 020	2 680	2 340	15
16	2 660	3 240	3 230	2 420	2 770	2 480	2 480	2 750	1 190	3 250	2 740	1 540	16
17	2 820	2 670	2 320	2 110	2 870	2 270	2 260	2 450	2 450	3 250	1 760	3 040	17
18	3 020	1 940	1 850	2 090	2 760	2 850	2 290	1 730	2 440	3 190	1 680	3 140	18
19	2 980	2 560	3 010	1 920	1 970	2 800	2 440	1 100	2 830	2 610	2 950	3 390	19
20	2 810	1 920	2 710	2 040	2 470	2 310	2 400	2 270	2 900	2 160	2 830	3 510	20
21	2 260	2 250	2 460	2 240	2 180	2 340	1 680	2 530	2 850	1 580	3 100	3 530	21
22	2 840	3 090	2 900	1 920	2 950	2 190	787	2 690	2 490	2 920	3 140	3 420	22
23	2 950	3 310	3 260	2 660	3 290	1 450	2 190	2 810	1 680	2 810	3 320	2 900	23
24	2 960	3 490	2 450	2 670	3 370	1 530	2 300	2 720	2 930	2 660	3 130	2 120	24
25	3 000	2 850	1 640	2 660	3 460	3 170	2 430	1 940	3 000	2 380	3 020	1 690	25
26	2 800	2 960	2 600	2 890	3 050	3 270	2 380	1 590	3 060	2 370	3 540	3 000	26
27	2 940	3 100	2 300	2 040	1 870	3 320	2 740	2 550	3 180	1 840	3 530	3 510	27
28	2 920	2 830	2 240	2 130	2 650	3 530	2 180	2 530	3 160	1 990	3 420	3 230	28
29	3 180		2 800	2 430	3 090	3 470	1 650	2 640	2 690	3 300	3 220	3 400	29
30	3 420		2 920	3 050	3 080	2 600	1 980	2 620	1 560	3 490	3 280	3 250	30
31	3 280		1 370		3 160		2 090	2 520		3 340		3 000	31
TOTAL	90 620	78 840	78 490	67 320	77 700	81 600	68 897	71 358	71 240	83 740	85 520	88 740	TOTAL
MEAN	2 920	2 820	2 530	2 240	2 510	2 720	2 220	2 300	2 370	2 700	2 850	2 860	MEAN
MAX	3 590	3 490	3 470	3 050	3 460	3 530	3 230	3 190	3 180	3 490	3 540	3 530	MAX
MIN	1 950	1 640	1 370	1 050	1 300	1 450	787	768	1 190	1 580	1 680	1 340	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2 590
MAXIMUM DAILY, 3 590 ON JAN 12
MINIMUM DAILY, 768 ON AUG 05

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 56 22 49 N
LONG 094 38 02 W

REGULATED SINCE 1970

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 830 000	JUL	5 950 000
FEB	6 810 000	AUG	6 170 000
MAR	6 780 000	SEP	6 160 000
APR	5 820 000	OCT	7 240 000
MAY	6 710 000	NOV	7 390 000
JUN	7 050 000	DEC	7 670 000

TOTAL DISCHARGE, 81 600 000 dam³

DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

NELSON RIVER AT LONG SPRUCE GENERATING STATION - STATION NO. 05UF007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2 000	3 370	2 120	1 400	2 530	3 480	1 770	2 160	1 690	2 510	3 260	3 140	1
2	2 690	3 240	2 830	2 750	2 630	3 120	2 720	2 460	1 320	3 000	2 990	2 920	2
3	3 000	1 950	2 710	2 400	2 610	2 140	3 240	2 390	1 480	3 040	1 710	3 010	3
4	3 230	1 630	2 350	2 680	2 610	3 040	2 380	1 450	2 260	3 130	1 940	3 050	4
5	3 370	3 010	3 510	2 950	1 740	2 510	2 380	736	2 550	3 030	2 940	2 920	5
6	2 960	2 490	3 250	2 830	1 320	2 850	2 000	1 880	2 910	1 780	2 940	3 060	6
7	2 540	2 600	2 800	2 180	2 870	2 860	1 810	2 680	2 670	1 580	3 180	2 810	7
8	2 920	2 830	2 620	1 450	2 610	3 030	1 850	2 740	1 700	2 940	3 030	2 170	8
9	2 990	3 060	2 250	2 100	2 680	2 580	2 510	2 620	1 480	2 960	3 010	1 380	9
10	3 010	3 230	1 800	2 700	2 300	1 740	2 330	2 630	2 600	3 170	2 360	3 050	10
11	3 560	2 500	1 950	2 690	1 820	2 960	2 000	1 560	2 800	3 060	2 130	2 690	11
12	3 570	3 180	2 610	2 280	1 190	3 240	1 700	3 140	2 810	3 320	3 260	2 720	12
13	2 960	3 390	2 730	1 270	1 450	3 210	2 550	2 770	2 800	2 520	3 030	3 320	13
14	2 530	3 200	2 820	1 370	1 840	3 020	3 090	2 460	2 490	1 740	2 750	3 180	14
15	2 820	3 140	3 200	1 060	2 640	2 830	2 600	2 510	1 570	3 020	2 690	2 350	15
16	2 650	3 220	3 260	2 450	2 760	2 520	2 530	2 720	1 250	3 260	2 790	1 570	16
17	2 810	2 680	2 270	2 120	2 900	2 320	2 250	2 280	2 420	3 250	1 760	3 080	17
18	3 020	1 930	1 870	2 080	2 790	2 970	2 310	1 800	2 480	3 190	1 690	3 200	18
19	3 040	2 550	3 020	1 890	2 080	2 610	2 360	991	2 790	2 640	3 040	3 440	19
20	2 800	1 920	2 710	2 080	2 480	2 320	2 420	2 300	2 910	2 160	2 890	3 510	20
21	2 280	2 240	2 490	2 290	2 210	2 440	1 670	2 530	2 900	1 620	3 120	3 500	21
22	2 800	3 150	2 860	1 970	2 980	2 390	812	2 700	2 490	2 890	3 180	3 170	22
23	2 940	3 330	3 240	2 670	3 260	1 510	2 190	820	1 690	2 930	3 330	2 930	23
24	2 980	3 540	2 490	2 660	3 420	1 490	2 320	2 800	2 950	2 620	3 190	2 170	24
25	3 000	2 800	1 680	2 700	3 560	3 320	2 500	1 930	3 040	2 430	3 050	1 720	25
26	2 790	2 980	2 590	2 860	3 080	3 270	2 300	1 530	3 040	2 330	3 580	3 050	26
27	2 930	3 100	3 310	1 920	3 420	2 770	2 600	3 220	1 890	3 530	3 530	3 610	27
28	2 960	2 880	2 270	2 200	2 710	3 540	2 190	2 500	2 160	2 050	3 450	3 200	28
29	3 180		2 770	1 440	3 190	3 460	1 650	2 660	2 670	3 340	3 270	3 440	29
30	3 440		1 970	3 090	3 150	2 630	1 970	2 600	1 560	3 470	3 310	3 240	30
31	3 260		1 370		3 270		2 080	2 470		3 340		3 020	31
TOTAL	91 030	79 140	78 720	67 710	78 790	82 820	69 252	71 417	71 700	84 010	86 400	89 620	TOTAL
MEAN	2 940	2 830	2 540	2 260	2 540	2 760	2 230	2 300	2 390	2 710	2 880	2 890	MEAN
MAX	3 570	3 540	3 510	3 100	3 560	3 540	3 240	3 140	3 220	3 470	3 580	3 610	MAX
MIN	2 000	1 630	1 370	1 060	1 320	1 490	812	736	1 250	1 580	1 690	1 380	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2 600
MAXIMUM DAILY, 3 610 ON DEC 27
MINIMUM DAILY, 736 ON AUG 05

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 56 23 51 N
LONG 094 22 10 W

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 860 000	JUL	5 980 000
FEB	6 840 000	AUG	6 170 000
MAR	6 800 000	SEP	6 190 000
APR	5 850 000	OCT	7 260 000
MAY	6 810 000	NOV	7 460 000
JUN	7 160 000	DEC	7 740 000

TOTAL DISCHARGE, 82 100 000 dam³

DATA CONTRIBUTED BY -
MANITOBA HYDRO

REGULATED SINCE 1977

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

NELSON RIVER AT NORWAY HOUSE - STATION NO. 05UB001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.623	216.608	216.647	216.703	216.904	217.159	217.418	217.522	217.385	217.278	216.910	216.834	1
2	216.624	216.607	216.641	216.705	216.917	216.952	217.348	217.560	217.465	217.163	216.971	216.832	2
3	216.614	216.606	216.632	216.723	216.932	216.973	217.225	217.483	217.520	217.280	216.886	216.821	3
4	216.617	216.607	216.623	216.716	216.942	217.077	217.234	217.387	217.449	217.158	216.897	216.837	4
5	216.621	216.611	216.624	216.713	216.949	217.152	217.327	217.459	217.520	217.019	217.023	216.851	5
6	216.622	216.619	216.633	216.717	216.959	217.177	217.381	217.510	217.392	217.023	216.996	216.814	6
7	216.619	216.614	216.641	216.729	216.923	217.162	217.398	217.560	217.453	217.043	217.057	216.811	7
8	216.602	216.608	216.643	216.734	216.926	217.177	217.404	217.533	217.435	217.096	217.160	216.808	8
9	216.600	216.609	216.645	216.738	216.970	217.209	217.356	217.370	217.363	217.151	217.033	216.795	9
10	216.607	216.621	216.652	216.734	217.023	217.220	217.362	217.421	217.390	217.298	216.845	216.778	10
11	216.604	216.621	216.632	216.745	217.011	217.262	217.407	217.474	217.381	217.341	216.780	216.779	11
12	216.607	216.616	216.616	216.753	217.027	217.309	217.440	217.499	217.308	217.124	216.790	216.762	12
13	216.605	216.613	216.605	216.753	217.036	217.214	217.507	217.597	217.328	217.200	216.894	216.763	13
14	216.601	216.618	216.614	216.755	217.055	217.149	217.534	217.429	217.362	217.172	216.962	216.772	14
15	216.606	216.617	216.609	216.764	217.065	217.251	217.496	217.420	217.204	217.133	216.929	216.766	15
16	216.617	216.600	216.618	216.764	217.002	217.321	217.489	217.428	217.275	217.110	216.901	216.758	16
17	216.615	216.601	216.635	216.774	216.950	217.290	217.471	217.382	217.444	217.072	216.906	216.743	17
18	216.619	216.608	216.650	216.783	217.025	217.296	217.438	217.382	217.459	217.092	216.903	216.728	18
19	216.617	216.616	216.663	216.793	217.108	217.319	217.427	217.451	217.266	217.130	216.897	216.721	19
20	216.609	216.625	216.656	216.774	217.116	217.292	217.404	217.484	217.230	217.135	216.910	216.718	20
21	216.621	216.635	216.648	216.783	217.128	217.259	217.390	217.523	217.134	217.105	216.887	216.713	21
22	216.622	216.632	216.654	216.795	217.131	217.214	217.448	217.546	217.090	217.058	216.885	216.713	22
23	216.614	216.626	216.667	216.810	217.128	217.264	217.479	217.582	217.238	217.113	216.731	216.718	23
24	216.603	216.624	216.686	216.814	217.145	217.320	217.512	217.516	217.268	217.097	216.753	216.713	24
25	216.609	216.629	216.687	216.805	217.148	217.289	217.416	217.390	217.275	217.221	216.802	216.706	25
26	216.614	216.636	216.681	216.804	217.159	217.259	217.438	217.372	217.292	217.197	216.840	216.707	26
27	216.625	216.632	216.687	216.821E	217.101	217.288	217.513	217.410	217.136	216.957	216.845	216.702	27
28	216.617	216.635	216.690	216.848E	217.067	217.272	217.585	217.436	217.134	216.966	216.843	216.703	28
29	216.605		216.702	216.874E	217.153A	217.288	217.391	217.488	217.202	217.139	216.846	216.697	29
30	216.590		216.715	216.894	217.167	217.347	217.442	217.478	217.341	217.044	216.845	216.699	30
31	216.603		216.718		217.194		217.500	217.533		216.984		216.697	31
MEAN	216.612	216.618	216.652	216.771	217.044	217.225	217.425	217.472	217.325	217.126	216.897	216.757	MEAN
MAX	216.625	216.636	216.718	216.894	217.194	217.347	217.585	217.597	217.520	217.341	217.160	216.851	MAX
MIN	216.590	216.600	216.605	216.703	216.904	216.952	217.225	217.370	217.090	216.957	216.731	216.697	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 216.996
MAXIMUM DAILY, 217.597 ON AUG 13
MINIMUM DAILY, 216.590 ON JAN 30
MAXIMUM INSTANTANEOUS,
217.641 AT 15:35 CST ON JUL 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 00 00 N
LONG 097 48 00 W

A - MANUAL GAUGE
E - ESTIMATED

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

NETLEY CREEK NEAR MATLOCK - STATION NO. 05QJ009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.776B	0.004	0.015	---	---	---	---	---	---	1
2	---	---	0 B	0.536B	0.005	0.026	---	---	---	---	---	---	2
3	---	---	0 B	0.471	0.008	0.030	---	---	---	---	---	---	3
4	---	---	0 B	0.455	0.014	0.034	---	---	---	---	---	---	4
5	---	---	0 B	0.362	0.010	0.037	---	---	---	---	---	---	5
6	---	---	0 B	0.332	0.017	0.056	---	---	---	---	---	---	6
7	---	---	0 B	0.202	0.015	0.069	---	---	---	---	---	---	7
8	---	---	0 B	0.157	0.017	0.152	---	---	---	---	---	---	8
9	---	---	0 B	0.128	0.009	0.206	---	---	---	---	---	---	9
10	---	---	0 B	0.104	0.008	0.163	---	---	---	---	---	---	10
11	---	---	0 B	0.075	0.010	0.133	---	---	---	---	---	---	11
12	---	---	0 B	0.066	0.005	0.133	---	---	---	---	---	---	12
13	---	---	0 B	0.057	0.005	0.156	---	---	---	---	---	---	13
14	---	---	0.008B	0.054	0.009	0.133	---	---	---	---	---	---	14
15	---	---	0.036B	0.044	0.008	0.108	---	---	---	---	---	---	15
16	---	---	0.029B	0.034	0.027	0.091	---	---	---	---	---	---	16
17	---	---	0.020B	0.046	0.039	0.073	---	---	---	---	---	---	17
18	---	---	0.043B	0.062	0.023	0.067	---	---	---	---	---	---	18
19	---	---	0.051B	0.064	0.020	0.061	---	---	---	---	---	---	19
20	---	---	0.041B	0.054	0.014	0.153	---	---	---	---	---	---	20
21	---	---	0.055B	0.025	0.017	0.175	---	---	---	---	---	---	21
22	---	---	0.038B	0.025	0.022	0.144	---	---	---	---	---	---	22
23	---	---	0.024B	0.031	0.019	0.120	---	---	---	---	---	---	23
24	---	---	0.017B	0.037	0.016	0.104	---	---	---	---	---	---	24
25	---	---	0.012B	0.052	0.015	0.080	---	---	---	---	---	---	25
26	---	---	0.011B	0.031	0.015	0.056	---	---	---	---	---	---	26
27	---	---	0.025B	0.016	0.010	0.066	---	---	---	---	---	---	27
28	---	---	0.027B	0.012	0.009	0.078	---	---	---	---	---	---	28
29	---	---	0.060B	0.010	0.009	0.053	---	---	---	---	---	---	29
30	---		0.490B	0.004	0.010	0.040	---	---	---	---	---	---	30
31	---		1.01 B		0.012		---	---		---		---	31
TOTAL	---	---	1.997	4.322	0.421	2.812	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.064	0.144	0.014	0.094	---	---	---	---	---	---	MEAN
MAX	---	---	1.01	0.776	0.039	0.206	---	---	---	---	---	---	MAX
MIN	---	---	0	0.004	0.004	0.015	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.078
MAXIMUM DAILY, 1.01B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.26B AT 22:04 CST ON MAR 30

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 52 N
LONG 097 09 56 W
DRAINAGE AREA, 287 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	173	SEP	---
APR	373	OCT	---
MAY	36.4	NOV	---
JUN	243	DEC	---

TOTAL DISCHARGE, 825 dam³

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05QJ008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.060B	8.55 B	0.113	0.063	1.09	0.094	0.059	0.074	---	---	1
2	---	---	0.055B	6.29 B	0.061	2.53	1.13	0.070	0.062	0.050	---	---	2
3	---	---	0.050B	5.55 B	0.056	1.57	3.44	0.064	0.061	0.053	---	---	3
4	---	---	0.045B	4.64 B	0.036	0.633	5.11	0.062	0.061	0.055	---	---	4
5	---	---	0.040B	1.85 B	0.039	0.350	2.80	0.066	0.062	0.051	---	---	5
6	---	---	0.040B	1.21 E	0.043	0.234	1.62	0.059	0.061	0.058	---	---	6
7	---	---	0.042B	1.27 E	0.056	0.817	1.70	0.047	0.065	0.052	---	---	7
8	---	---	0.045B	1.29 E	0.089	3.31	1.48	0.030	0.072	0.053	---	---	8
9	---	---	0.048B	1.12 E	0.045	3.50	0.966	0.025	0.065	0.053	---	---	9
10	---	---	0.051B	0.824E	0.059	2.33	0.552	0.018	0.052	0.046	---	---	10
11	---	---	0.053B	0.595A	0.086	1.74	0.268	0.018	0.059	0.051	---	---	11
12	---	---	0.056B	0.713E	0.101	2.09	0.227	0.024	0.066	0.055	---	---	12
13	---	---	0.060B	0.908E	0.093	4.69	0.131	0.041	0.066	0.065	---	---	13
14	---	---	0.075B	0.741E	0.093	2.72	0.135	0.058	0.057	0.072	---	---	14
15	---	---	0.130B	0.603E	0.095	1.09	0.128	0.051	0.059	0.073	---	---	15
16	---	---	0.130B	0.465E	0.240	0.613	0.119	0.052	0.060	0.070	---	---	16
17	---	---	0.120B	0.487E	0.296	0.375	0.163	0.053	0.068	0.067	---	---	17
18	---	---	0.135B	0.554A	0.177	0.314	0.182	0.053	0.064	0.071	---	---	18
19	---	---	0.150B	0.966	0.283	0.446	0.178	0.063	0.049	0.071	---	---	19
20	---	---	0.140B	0.663	0.381	0.685	0.166	0.060	0.059	0.082	---	---	20
21	---	---	0.150B	0.502	0.389	1.60	0.228	0.070	0.059	0.078	---	---	21
22	---	---	0.140B	0.239	0.374	1.42	0.210	0.082	0.067	0.059	---	---	22
23	---	---	0.130B	0.127	0.193	0.975	0.222	0.093	0.066	0.061	---	---	23
24	---	---	0.120B	0.069	0.121	0.754	0.215	0.062	0.064	0.158	---	---	24
25	---	---	0.110B	0.110	0.195	0.676	0.119	0.083	0.084	0.169	---	---	25
26	---	---	0.100B	0.156	0.426	0.651	0.111	0.068	0.065	0.123	---	---	26
27	---	---	0.115B	0.103	0.063	0.745	0.122	0.111	0.062	0.099	---	---	27
28	---	---	0.115B	0.135	0.029	0.832	0.111	0.128	0.068	0.043	---	---	28
29	---	---	0.165B	0.218	0.026	0.906	0.102	0.072	0.067	0.031	---	---	29
30	---		2.19 B	0.219	0.022	0.953	0.086	0.059	0.070	0.036	---	---	30
31	---		9.43 B		0.019		0.073	0.071		0.038		---	31
TOTAL	---	---	14.290	41.067	4.301	39.612	23.193	1.907	1.899	2.117	---	---	TOTAL
MEAN	---	---	0.461	1.37	0.139	1.32	0.748	0.062	0.063	0.068	---	---	MEAN
MAX	---	---	9.43	8.55	0.426	4.69	5.11	0.128	0.084	0.169	---	---	MAX
MIN	---	---	0.040	0.069	0.019	0.063	0.073	0.018	0.049	0.031	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.524
MAXIMUM DAILY, 9.43B ON MAR 31
MINIMUM DAILY, 0.018 ON AUG 10
MAXIMUM INSTANTANEOUS,
10.6B AT 22:12 CST ON MAR 31

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 19 38 N
LONG 097 02 39 W
DRAINAGE AREA, 645 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	2 000
FEB	---	AUG	165
MAR	1 230	SEP	164
APR	3 550	OCT	183
MAY	372	NOV	---
JUN	3 420	DEC	---

TOTAL DISCHARGE, 11 100 dam³

NORTH DUCK RIVER AT COWAN - STATION NO. 05LG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.260B	1.05 B	3.83	1.91	2.00 E	0.195	0.069	0.186	---	---	1
2	---	---	0.256B	0.852B	3.29	1.73	1.40 E	0.192	0.088	0.191	---	---	2
3	---	---	0.251B	1.02 B	3.81	1.53	1.20 E	0.173	0.084	0.197	---	---	3
4	---	---	0.246B	1.23 B	5.97	1.38	1.30 E	0.157	0.077	0.198	---	---	4
5	---	---	0.241B	1.10 B	8.42	1.68	1.80 E	0.148	0.051	0.215	---	---	5
6	---	---	0.237B	0.906B	10.8	1.89	2.25 E	0.135	0.051	0.206	---	---	6
7	---	---	0.225B	0.933B	12.5	1.87	15.2 E	0.127	0.039	0.208	---	---	7
8	---	---	0.241B	0.910B	8.83	1.83	10.0 E	0.116	0.046	0.189	---	---	8
9	---	---	0.253B	0.815B	6.38	1.51	5.40 E	0.108	0.054	0.180	---	---	9
10	---	---	0.261B	0.799B	10.1	1.29	3.80 E	0.106	0.053	0.183	---	---	10
11	---	---	0.265B	0.713B	16.9	1.14	2.32 A	0.119	0.052	0.185	---	---	11
12	---	---	0.264B	0.624B	13.0	1.09	1.91	0.114	0.051	0.183	---	---	12
13	---	---	0.275B	0.735B	9.60	0.996	1.32	0.102	0.066	0.178	---	---	13
14	---	---	0.290B	0.786B	7.81	0.996	0.986	0.107	0.081	0.184	---	---	14
15	---	---	0.280B	0.834B	7.00	0.867	0.840	0.094	0.082	0.213	---	---	15
16	---	---	0.291B	0.859B	18.9	0.765	0.718	0.105	0.075	0.163	---	---	16
17	---	---	0.311B	0.961B	35.9	0.721	0.691	0.117	0.085	0.149	---	---	17
18	---	---	0.320B	1.72 B	18.5	0.880	0.635	0.106	0.087	0.139	---	---	18
19	---	---	0.322B	4.69 B	12.3	0.850	0.590	0.090	0.067	0.140	---	---	19
20	---	---	0.332B	8.54 B	10.3	0.839	0.566	0.076	0.090	0.152	---	---	20
21	---	---	0.329B	8.96	8.32	0.746	0.514	0.069	0.162	0.159	---	---	21
22	---	---	0.327B	15.7	6.99	0.727	0.484	0.069	0.179	0.154	---	---	22
23	---	---	0.320B	25.6	6.06	0.673	0.445	0.124	0.152	0.155	---	---	23
24	---	---	0.308B	23.4	5.39	0.618	0.384	0.120	0.124	0.151	---	---	24
25	---	---	0.298B	20.0	4.43	0.551	0.329	0.209	0.114	0.153	---	---	25
26	---	---	0.302B	12.2	3.76	0.542	0.295	0.195	0.090	0.155	---	---	26
27	---	---	0.304B	6.85	3.32	0.698A	0.302	0.177	0.126	0.154	---	---	27
28	---	---	0.304B	4.41	2.80	0.950E	0.286	0.170	0.139	0.159	---	---	28
29	---	---	0.312B	4.22	2.47	1.40 E	0.264	0.150	0.151	0.163	---	---	29
30	---		0.989B	4.43	2.20	2.50 E	0.230	0.117	0.166	0.149A	---	---	30
31	---		1.30 B		2.03		0.209	0.082		0.144E		---	31
TOTAL	---	---	10.514	152.847	271.91	35.169	58.668	3.969	2.759	5.335	---	---	TOTAL
MEAN	---	---	0.339	5.09	8.77	1.17	1.89	0.128	0.092	0.172	---	---	MEAN
MAX	---	---	1.30	23.4	35.9	2.50	15.2	0.209	0.179	0.215	---	---	MAX
MIN	---	---	0.225	0.624	2.03	0.542	0.209	0.069	0.039	0.139	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.21
MAXIMUM DAILY, 35.9 ON MAY 17
MINIMUM DAILY, 0.039 ON SEP 07
MAXIMUM INSTANTANEOUS,
47.0 AT 04:27 CST ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 50 N
LONG 100 39 00 W
DRAINAGE AREA, 223 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 070
FEB	---	AUG	343
MAR	908	SEP	238
APR	13 200	OCT	461
MAY	23 500	NOV	---
JUN	3 040	DEC	---

TOTAL DISCHARGE, 46 800 dam³

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "DUCK RIVER AT COWAN"

NORTH MOOSE LAKE AT MOOSE LAKE NARROWS CONTROL STRUCTURE - STATION NO. 05KK005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	255.467	255.475	255.530	255.555	255.615	---	255.639	255.555	255.532	255.471	255.505	255.547	1
2	255.467	255.479	255.526	255.553	255.616A	---	255.672	255.587	255.451	255.382	255.525	255.545	2
3	255.466	255.484	255.530	255.561	---	---	255.665	255.628	255.530	255.460	255.522	255.547	3
4	255.467	255.486	255.531	255.562	---	---	255.663	255.568	255.503	255.529	255.495	255.548	4
5	255.463	255.484	255.530	255.558	---	---	255.633	255.549	255.481	255.507	255.498	255.551	5
6	255.470	255.483	255.531	255.560	---	---	255.611	255.521	255.534	255.494	255.500	255.551	6
7	255.469	255.481	255.533	255.561	---	---	255.642	255.522	255.449	255.458	255.498	255.551	7
8	255.476	255.482	255.535	255.559	---	---	255.657	255.597	255.533	255.446	255.502	255.551	8
9	255.475	255.484	255.539	255.556	---	---	255.667	255.586	255.497	255.414	255.504	255.552	9
10	255.479	255.482	255.542	255.558	---	---	255.615	255.535	255.462	255.442	255.503	255.549	10
11	255.463	255.484	255.546	255.551	---	255.666A	255.636	255.547	255.496	255.534	255.501	255.556	11
12	255.456	255.503	255.548	255.548	---	255.672	255.608	255.532	255.410	255.453	255.500	255.558	12
13	255.461	255.501	255.546	255.545	---	255.770	255.575	255.552	255.498	255.462	255.501	255.552	13
14	255.464	255.502	255.544	255.545	---	255.676	255.640	255.577	255.476	255.476	255.504	255.555	14
15	255.461	255.510	255.551	255.544	---	255.651	255.640	255.526	255.499	255.486	255.505	255.558	15
16	255.463	255.510	255.558	255.548	---	255.644	255.629	255.548	255.416	255.504	255.507	255.560	16
17	255.463	255.512	255.553	255.549	---	255.681	255.651	255.538	255.387	255.474	255.506	255.555	17
18	255.461	255.515	255.551	255.551	---	255.678	255.633	255.491	255.504	255.408	255.506	255.557	18
19	255.467	255.518	255.553	255.556	---	255.693	255.636	255.502	255.496	255.436	255.507	255.554	19
20	255.470	255.526	255.556	255.561	---	255.702	255.647	255.498	255.478	255.490	255.511	255.555	20
21	255.472	255.527	255.555	255.563	---	255.700	255.611	255.499	255.507	255.457	255.511	255.554	21
22	255.476	255.529	255.554	255.568	---	255.681	255.599	255.476	255.469	255.447	255.523	255.555	22
23	255.472	255.529	255.552	255.568	---	255.639	255.597	255.502	255.453	255.480	255.542	255.560	23
24	255.470	255.528	255.554	255.572	---	255.665	255.605	255.528	255.490	255.454	255.540	255.559	24
25	255.469	255.529	255.555	255.575	---	255.678	255.589	255.539	255.481	255.429	255.540	255.555	25
26	255.476	255.534	255.556	255.582	---	255.651	255.578	255.526	255.521	255.503	255.543	255.558	26
27	255.471	255.529	255.554	255.586	---	255.618	255.548	255.522	255.514	255.565	255.545	255.564	27
28	255.472	255.530	255.555	255.595	---	255.659	255.647	255.511	255.477	255.393	255.547	255.562	28
29	255.479		255.555	255.607	---	255.642	255.653	255.512	255.399	255.465	255.549	255.555	29
30	255.475		255.589	255.612	---	255.632	255.575	255.502	255.407	255.464	255.550	255.558	30
31	255.474		255.554		---		255.549	255.532		255.469		255.558	31
MEAN	255.469	255.505	255.546	255.564	---	---	255.623	255.536	255.478	255.466	255.516	255.555	MEAN
MAX	255.479	255.534	255.589	255.612	---	---	255.672	255.628	255.534	255.565	255.550	255.564	MAX
MIN	255.456	255.475	255.526	255.544	---	---	255.548	255.476	255.387	255.382	255.495	255.545	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 255.770 ON JUN 13
MINIMUM DAILY, 255.382 ON OCT 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 57 00 N
LONG 100 10 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1964
DRAINAGE AREA,
6 330 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

NORTH PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.138B	0.234B	3.45	2.36	1.98	0.510	0.188	0.139	---	---	1
2	---	---	0.125B	0.332B	3.07	4.54	1.69	0.498	0.210	0.146	---	---	2
3	---	---	0.099B	0.329B	3.14	3.92	1.65	0.469	0.181	0.148	---	---	3
4	---	---	0.102B	0.389B	3.70	3.26	2.14	0.460	0.156	0.156	---	---	4
5	---	---	0.111B	0.572B	4.45	3.38	2.43	0.436	0.125	0.152	---	---	5
6	---	---	0.157B	0.354B	5.53	3.15	2.44	0.414	0.104	0.152	---	---	6
7	---	---	0.101B	0.446B	6.74	3.06	3.57	0.400	0.096	0.163	---	---	7
8	---	---	0.116B	0.450B	6.07	2.88	3.38	0.398	0.087	0.190	---	---	8
9	---	---	0.141B	0.324B	5.18	2.45	3.10	0.421	0.119	0.188	---	---	9
10	---	---	0.128B	0.301B	6.74	2.13	2.39	0.386	0.098	0.188	---	---	10
11	---	---	0.108B	0.283B	7.45	1.98	2.06	0.373	0.093	0.190	---	---	11
12	---	---	0.110B	0.300B	6.69	1.87	1.83	0.336	0.076	0.163	---	---	12
13	---	---	0.141B	0.395B	5.96	1.96	1.40	0.278	0.074	0.154	---	---	13
14	---	---	0.129B	0.380B	5.66	2.87	1.09	0.287	0.084	0.153	---	---	14
15	---	---	0.149B	0.330B	6.08	2.50	0.904	0.299	0.092	0.158	---	---	15
16	---	---	0.139B	0.327B	12.1	2.11	0.770	0.300	0.082	0.153	---	---	16
17	---	---	0.290B	0.281B	18.9	1.71	0.688	0.310	0.081	0.161	---	---	17
18	---	---	0.360B	0.559B	12.4	1.47	0.741	0.279	0.072	0.154	---	---	18
19	---	---	0.312B	1.81 B	9.56	1.35	0.693	0.297	0.068	0.148	---	---	19
20	---	---	0.289B	1.51 B	8.17	1.75	0.655	0.319	0.080	0.170	---	---	20
21	---	---	0.257B	1.72	7.11	1.58	0.627	0.315	0.081	0.175	---	---	21
22	---	---	0.237B	3.99	6.39	1.37	0.578	0.294	0.087	0.170	---	---	22
23	---	---	0.228B	7.74	5.79	1.25	0.547	0.319	0.070	0.172	---	---	23
24	---	---	0.224B	11.0	5.91	1.17	0.518	0.337	0.067	0.175	---	---	24
25	---	---	0.239B	11.8	5.35	1.10	0.505	0.428	0.090	0.179	---	---	25
26	---	---	0.199B	8.76	4.10	1.10	0.512	0.395	0.100	0.177	---	---	26
27	---	---	0.182B	7.03	3.52	1.17	0.524	0.402	0.102	0.174	---	---	27
28	---	---	0.174B	6.25 B	3.12	1.53	0.565	0.431	0.116	0.177	---	---	28
29	---	---	0.203B	6.90 B	2.84	1.62	0.552	0.325	0.116	0.165	---	---	29
30	---	---	0.236B	4.29	2.60	2.12	0.531	0.287	0.117	0.163A	---	---	30
31	---		0.292B		2.39		0.510	0.220		0.160E		---	31
TOTAL	---	---	5.724	79.386	190.16	64.71	41.570	11.223	3.112	5.113	---	---	TOTAL
MEAN	---	---	0.185	2.65	6.13	2.16	1.34	0.362	0.104	0.165	---	---	MEAN
MAX	---	---	0.360	11.8	18.9	4.54	3.57	0.510	0.210	0.190	---	---	MAX
MIN	---	---	0.099	0.234	2.39	1.10	0.505	0.220	0.067	0.139	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.64
MAXIMUM DAILY, 18.9 ON MAY 17
MINIMUM DAILY, 0.067 ON SEP 24
MAXIMUM INSTANTANEOUS,
21.6 AT 02:59 CST ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 49 00 N
LONG 100 32 00 W
DRAINAGE AREA, 210 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 590
FEB	---	AUG	970
MAR	495	SEP	269
APR	6 860	OCT	442
MAY	16 400	NOV	---
JUN	5 590	DEC	---

TOTAL DISCHARGE, 34 600 dam³

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06GB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	66.1B	55.2B	47.6B	40.8B	35.8B	137	258	182	141	140	128B	104 B	1
2	65.7B	54.9B	47.2B	40.6B	35.6B	142E	257	180	141	139	127B	103 B	2
3	65.1B	54.7B	47.0B	40.4B	35.5B	149E	257	182	141	135	126B	103 B	3
4	64.8B	54.5B	46.7B	40.3B	35.5B	156E	257	181	140	138	125B	102 B	4
5	64.3B	54.1B	46.5B	40.1B	35.4B	164E	257	180	139	141	124B	101 B	5
6	64.0B	53.9B	46.3B	40.0B	35.3B	171E	258	176	140	141	123B	101 B	6
7	63.6B	53.5B	46.1B	39.8B	35.3B	177E	255	174	140	141	122B	100 B	7
8	63.2B	53.2B	45.8B	39.6B	35.3B	183E	253	174	144	140	121B	99.5B	8
9	63.0B	52.8B	45.6B	39.5B	35.2B	190E	252	171	141	140	120B	98.8B	9
10	62.5B	52.6B	45.4B	39.3B	35.2B	198E	250	168	141	139	119B	98.2B	10
11	62.1B	52.3B	45.1B	39.1B	35.2B	206E	247	165	139	140	119B	97.6B	11
12	61.7B	52.0B	44.9B	38.9B	35.3B	213E	247	163	138	141	118B	96.9B	12
13	61.3B	51.8B	44.7B	38.8B	35.3B	221E	243	162	138	141	117B	96.3B	13
14	61.0B	51.4B	44.5B	38.6B	35.3B	228E	240	161	138	141	116B	95.8B	14
15	60.6B	51.2B	44.2B	38.3B	35.4B	236E	234	158	138	143	115B	95.1B	15
16	60.3B	50.8B	43.9B	38.1B	35.5B	242E	230	155	139	143	115B	94.5B	16
17	60.0B	50.6B	43.7B	38.0B	35.8B	247E	227	151	139	142	114B	94.0B	17
18	59.6B	50.3B	43.5B	37.8B	36.3B	249E	225	148	141	142E	113B	93.3B	18
19	59.2B	50.1B	43.3B	37.6B	36.7B	250A	222	147	141	141E	112B	92.8B	19
20	58.9B	49.8B	43.1B	37.4B	37.1B	248	217	146	139	141E	112B	92.2B	20
21	58.5B	49.5B	42.9B	37.2B	41.0B	248	217	144	139	140B	111B	91.6B	21
22	58.2B	49.2B	42.7B	37.1B	49.0B	248	213	141	139	139B	110B	91.2B	22
23	57.9B	49.0B	42.4B	36.9B	62.0B	248	210	140	140	138B	110B	90.6B	23
24	57.5B	48.8B	42.1B	36.7B	74.0B	249	205	147	138	137B	109B	89.9B	24
25	57.1B	48.6B	42.0B	36.6B	85.0B	249	204	149	140	135B	108B	89.4B	25
26	56.8B	48.4B	41.8B	36.5B	95.6	252	200	147	141	134B	107B	88.8B	26
27	56.6B	48.1B	41.6B	36.3B	103	253	196	144	140	133B	107B	88.2B	27
28	56.3B	47.9B	41.4B	36.2B	108	254	195	144	140	132B	106B	87.7B	28
29	56.1B		41.3B	36.0B	116	255	194	143	140	130B	105B	87.0B	29
30	55.7B		41.1B	35.8B	122	258	188	143	141	129B	105B	86.5B	30
31	55.5B		40.9B		129		185	141		128B		86.0B	31
TOTAL	1 873.2	1 439.2	1 365.3	1 148.3	1 696.5	6 521	7 093	4 913	4 196	4 284	3 464	2 935.9	TOTAL
MEAN	60.4	51.4	44.0	38.3	54.7	217	229	158	140	138	115	94.7	MEAN
MAX	66.1	55.2	47.6	40.8	129	258	258	182	144	143	128	104	MAX
MIN	55.5	47.9	40.9	35.8	35.2	137	185	141	138	128	105	86.0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 112
MAXIMUM DAILY, 258 ON JUN 30
MINIMUM DAILY, 35.2B ON MAY 09
MAXIMUM INSTANTANEOUS,
258 AT 23:13 CST ON JUN 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 50 40 N
LONG 098 17 20 W
DRAINAGE AREA, 10 400 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	162 000	JUL	613 000
FEB	124 000	AUG	424 000
MAR	118 000	SEP	363 000
APR	99 200	OCT	370 000
MAY	147 000	NOV	299 000
JUN	563 000	DEC	254 000

TOTAL DISCHARGE, 3 540 000 dam³

NORTH SHANNON CREEK NEAR MYRTLE - STATION NO. 05OF015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.59 B	0	0	0.105	0	0	0	---	---	1
2	---	---	0 B	4.70 B	0	0.005	0.083	0	0	0	---	---	2
3	---	---	0 B	2.91 B	0	0.014	0.115	0	0	0	---	---	3
4	---	---	0 B	1.86 B	0	0.006	0.109	0	0	0	---	---	4
5	---	---	0 B	1.10 B	0	0.028	0.078	0	0	0	---	---	5
6	---	---	0 B	0.731B	0	0.508	0.040	0	0	0	---	---	6
7	---	---	0 B	0.427B	0.001	0.299	0.031	0	0	0	---	---	7
8	---	---	0 B	0.242B	0.008	0.304	0.032	0	0	0	---	---	8
9	---	---	0 B	0.218B	0.007	0.243	0.049	0	0	0	---	---	9
10	---	---	0 B	0.200B	0.004	0.198	0.064	0	0	0	---	---	10
11	---	---	0 B	0.172B	0.001	0.190	0.070	0	0	0	---	---	11
12	---	---	0 B	0.127	0	0.204	0.059	0	0	0	---	---	12
13	---	---	0 B	0.100	0	0.246	0.046	0	0	0	---	---	13
14	---	---	0.013B	0.091	0	0.699	0.034	0	0	0	---	---	14
15	---	---	1.38 B	0.068	0	1.44	0.024	0	0	0	---	---	15
16	---	---	0.954B	0.048	0	1.20	0.015	0	0	0	---	---	16
17	---	---	0.427B	0.039	0	0.714	0.009	0	0	0	---	---	17
18	---	---	0.340B	0.037	0	0.381	0.001	0	0	0	---	---	18
19	---	---	0.220B	0.027	0	0.248	0	0	0	0	---	---	19
20	---	---	0.118B	0.015	0	0.235	0	0	0	0	---	---	20
21	---	---	0.064B	0.001	0	0.166	0	0	0	0	---	---	21
22	---	---	0.039B	0	0	0.132	0	0	0	0	---	---	22
23	---	---	0.029B	0	0	0.173	0	0	0	0	---	---	23
24	---	---	0.020B	0	0	0.430	0	0	0	0	---	---	24
25	---	---	0.013B	0	0	0.579	0	0	0	0	---	---	25
26	---	---	0.010B	0	0	0.419	0	0	0	0	---	---	26
27	---	---	0.006B	0	0	0.294	0	0	0	0	---	---	27
28	---	---	0.118B	0	0	0.234	0	0	0	0	---	---	28
29	---	---	0.308B	0	0	0.194	0	0	0	0	---	---	29
30	---		1.25 B	0	0	0.155	0	0	0	0A	---	---	30
31	---		5.24 B		0		0	0		0E		---	31
TOTAL	---	---	10.549	18.703	0.021	9.938	0.964	0	0	0	---	---	TOTAL
MEAN	---	---	0.340	0.623	0.001	0.331	0.031	0	0	0	---	---	MEAN
MAX	---	---	5.24	5.59	0.008	1.44	0.115	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 0.164
MAXIMUM DAILY, 5.59B ON APR 01
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 20 34 N
LONG 097 50 33 W
DRAINAGE AREA, 168 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	83.3
FEB	---	AUG	0
MAR	911	SEP	0
APR	1 620	OCT	0
MAY	1.81	NOV	---
JUN	859	DEC	---

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "SHANNON CREEK TRIBUTARY NEAR MYRTLE"

TOTAL DISCHARGE, 3 480 dam³

NORTH SHOAL LAKE NEAR INWOOD - STATION NO. 05LN004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	28.294	28.090	28.164	28.222	28.210	---	---	---	1
2	---	---	---	---	28.333	28.285	28.164	28.272	28.160A	---	---	---	2
3	---	---	---	---	28.286	28.288	28.255	28.320	28.197A	28.185A	---	---	3
4	---	---	---	---	28.279	28.186	28.366	28.306	28.191A	28.239A	---	---	4
5	---	---	---	---	28.331	28.208	28.334	28.256	28.161A	28.185A	---	---	5
6	---	---	---	---	28.285	28.239	28.275	28.238	28.184A	28.188A	---	---	6
7	---	---	---	---	28.326	28.209	28.357	28.213	28.175A	---	---	---	7
8	---	---	---	---	28.348	28.326	28.363	28.252	28.191A	---	---	---	8
9	---	---	---	---	28.263	28.304	28.368	28.274	28.180A	---	---	---	9
10	---	---	---	---	28.245	28.278	28.357	28.263	28.166A	---	---	---	10
11	---	---	---	---	28.272	28.193	28.358	28.225	28.180A	28.177A	---	---	11
12	---	---	---	---	28.253	28.265	28.346	28.222	28.183A	---	---	---	12
13	---	---	---	---	28.278	28.256	28.313	28.223	28.202A	---	---	---	13
14	---	---	---	---	28.289	28.298	28.318	28.260	28.193A	---	---	28.043A	14
15	---	---	---	---	28.198	28.242	28.345	28.210	28.243A	---	---	---	15
16	---	---	---	---	28.251	28.244	28.318	28.261	---	---	---	---	16
17	---	---	---	---	28.300	28.250	28.359	28.260	---	---	---	---	17
18	---	---	---	---	28.156	28.249	28.335	28.229	28.168A	---	---	---	18
19	---	---	---	28.218A	28.115	28.246	28.338	28.204	---	---	---	---	19
20	---	---	---	28.225	28.111	28.310	28.334	28.204	---	---	---	---	20
21	---	---	---	28.210	28.087	28.327	28.340	28.186	28.283A	---	---	---	21
22	---	---	---	28.191	28.075	28.361	28.313	28.165	28.231A	28.082A	---	---	22
23	---	---	---	28.194	28.135	28.327	28.295	28.184	---	---	---	---	23
24	---	---	---	28.235	28.112	28.281	28.291	28.214	28.259A	---	---	---	24
25	---	---	---	28.252	28.091	28.292A	28.287	28.229	28.179A	---	---	---	25
26	---	---	---	28.301	28.097	28.259A	28.255	28.212	28.210A	---	---	---	26
27	---	---	---	28.298	28.100	28.243	28.240	28.213	28.180A	---	---	---	27
28	---	---	---	28.269	28.095	28.269	28.303	28.194	---	---	---	---	28
29	---		---	28.237	28.094	28.277	28.332	28.183	---	---	---	---	29
30	---		---	28.294	28.074	28.265	28.284	28.178	---	---	---	---	30
31	---		---		28.041A		28.267	28.178		---		---	31
MEAN	---	---	---	---	28.201	28.262	28.309	28.227	---	---	---	---	MEAN
MAX	---	---	---	---	28.348	28.361	28.368	28.320	---	---	---	---	MAX
MIN	---	---	---	---	28.041	28.090	28.164	28.165	---	---	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 28.368 ON JUL 09

MAXIMUM INSTANTANEOUS,
28.537 AT 16:14 CST ON JUN 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 00 N
LONG 097 37 30 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

DRAINAGE AREA,
846 km²

NORTH SNAKE CREEK NEAR BIRNIE - STATION NO. 05LL017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.229	0.252	0.157	0.018E	---	---	---	---	---	1
2	---	---	0 B	0.101B	0.202	0.171	0.015E	---	---	---	---	---	2
3	---	---	0 B	0.211	0.124	0.162	0.013E	---	---	---	---	---	3
4	---	---	0 B	0.274	0.099	0.161	0.012E	---	---	---	---	---	4
5	---	---	0 B	0.132B	0.087	0.162	0.010E	---	---	---	---	---	5
6	---	---	0 B	0.224B	0.129	0.151	0.060	---	---	---	---	---	6
7	---	---	0 B	0.226	0.125	0.134	0.134	---	---	---	---	---	7
8	---	---	0 B	0.163	0.105	0.195	0.252	---	---	---	---	---	8
9	---	---	0 B	0.140B	0.107	0.309	0.220	---	---	---	---	---	9
10	---	---	0 B	0.092	0.095	0.281	0.154	---	---	---	---	---	10
11	---	---	0 B	0.062	0.097	0.309	0.074	---	---	---	---	---	11
12	---	---	0.010B	0.060	0.125	0.399	0.048	---	---	---	---	---	12
13	---	---	0.218B	0.077	0.098	0.322	0.025	---	---	---	---	---	13
14	---	---	0.086B	0.092	0.073	0.164	0.020E	---	---	---	---	---	14
15	---	---	0.062B	0.076	0.073	0.173	0.017E	---	---	---	---	---	15
16	---	---	0.055B	0.062	2.73	0.155E	0.013E	---	---	---	---	---	16
17	---	---	0.048B	0.071	5.00	0.138E	0.010E	---	---	---	---	---	17
18	---	---	0.042B	0.188	2.81	0.123E	0.032	---	---	---	---	---	18
19	---	---	0.037B	1.00	1.54	0.115E	0.044E	---	---	---	---	---	19
20	---	---	0.033B	1.73	0.939	0.110E	0.055	---	---	---	---	---	20
21	---	---	0.030B	1.55	0.675	0.161	0.042	---	---	---	---	---	21
22	---	---	0.028B	1.37	0.584	0.172	0.029A	---	---	---	---	---	22
23	---	---	0.026B	1.05	0.468	0.174	0.018A	---	---	---	---	---	23
24	---	---	0.024B	0.878	0.397	0.120A	0.013A	---	---	---	---	---	24
25	---	---	0.022B	0.944	0.342	0.085A	0.011E	---	---	---	---	---	25
26	---	---	0.020B	1.07	0.258	0.066A	0.010E	---	---	---	---	---	26
27	---	---	0.020B	0.745	0.227A	0.054E	0.008E	---	---	---	---	---	27
28	---	---	0.020B	0.531	0.186A	0.044E	0.006E	---	---	---	---	---	28
29	---	---	0.040B	0.428	0.163A	0.032E	0.004E	---	---	---	---	---	29
30	---		0.096B	0.353	0.168	0.024E	0.003E	---	---	---	---	---	30
31	---		0.258B		0.171		0.001A	---		---		---	31
TOTAL	---	---	1.175	14.119	18.449	4.823	1.371	---	---	---	---	---	TOTAL
MEAN	---	---	0.038	0.471	0.595	0.161	0.044	---	---	---	---	---	MEAN
MAX	---	---	0.258	1.73	5.00	0.399	0.252	---	---	---	---	---	MAX
MIN	---	---	0	0.060	0.073	0.024	0.001	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 5.00 ON MAY 17
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
6.02 AT 01:29 CST ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 50 N
LONG 099 27 00 W
DRAINAGE AREA, 62.9 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	118
FEB	---	AUG	---
MAR	102	SEP	---
APR	1 220	OCT	---
MAY	1 590	NOV	---
JUN	417	DEC	---

REMARKS - STATION DISCONTINUED EFFECTIVE AUGUST 01, 1990

NUTIMIK LAKE AT NUTIMIK LAKE - STATION NO. 05PF802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	274.407	274.952E	274.943E	274.520	---	---	---	1
2	---	---	---	---	---	274.397	274.969	274.942E	---	---	---	---	2
3	---	---	---	---	---	274.426	274.943	274.942	---	---	---	---	3
4	---	---	---	---	---	274.386	274.963E	274.841	---	---	---	---	4
5	---	---	---	---	---	274.408E	274.982E	274.931	---	---	---	---	5
6	---	---	---	---	---	274.430E	275.002	274.901	---	---	---	---	6
7	---	---	---	---	---	274.452E	275.081	274.820E	---	---	---	---	7
8	---	---	---	---	---	274.474	275.081	274.740E	---	---	---	---	8
9	---	---	---	---	---	274.434	275.111	274.659E	---	---	---	---	9
10	---	---	---	---	---	274.503	275.110	274.579	---	---	---	---	10
11	---	---	---	---	---	274.503	275.100E	274.565	---	---	---	---	11
12	---	---	---	---	---	274.522	275.089E	274.629	---	---	---	---	12
13	---	---	---	---	---	274.535E	275.079	274.638	---	---	---	---	13
14	---	---	---	---	---	274.548E	275.058	274.708	---	---	---	---	14
15	---	---	---	---	---	274.561	275.028	274.691E	---	---	---	---	15
16	---	---	---	---	274.299	274.591	275.027	274.674E	---	---	---	---	16
17	---	---	---	---	274.302E	274.520	275.067	274.657	---	---	---	---	17
18	---	---	---	---	274.306E	274.660	275.042	274.662E	---	---	---	---	18
19	---	---	---	---	274.309E	274.579	275.044E	274.666	274.302	---	---	---	19
20	---	---	---	---	274.312	274.609E	275.046	274.666	---	---	---	---	20
21	---	---	---	---	274.362	274.638E	275.066	274.606	---	---	---	---	21
22	---	---	---	---	274.311	274.668	275.094	274.611E	---	---	---	---	22
23	---	---	---	---	274.311E	274.797	275.027	274.617E	---	---	---	---	23
24	---	---	---	---	274.310E	274.847	274.927	274.622	---	---	---	---	24
25	---	---	---	---	274.310	274.867	274.943E	274.612	---	---	---	---	25
26	---	---	---	---	274.370	274.915	274.958E	274.531	---	---	---	---	26
27	---	---	---	---	274.359	274.904E	274.974	274.529	---	---	---	---	27
28	---	---	---	---	274.279	274.893E	275.054	274.532E	---	---	---	---	28
29	---	---	---	---	274.428	274.881	275.069	274.536E	---	274.257	---	---	29
30	---	---	---	---	274.421E	274.934	274.913	274.539E	---	---	---	---	30
31	---	---	---	---	274.414E		274.943	274.542	---	---	---	---	31
MEAN	---	---	---	---	---	274.610	275.024	274.682	---	---	---	---	MEAN
MAX	---	---	---	---	---	274.934	275.111	274.943	---	---	---	---	MAX
MIN	---	---	---	---	---	274.386	274.913	274.529	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 275.111 ON JUL 09

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 08 39 N
LONG 095 41 21 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
127 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

OAK CREEK NEAR GLENBORO - STATION NO. 05NG027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.32	0.077	0.002	0.016	0	0	0	---	---	1
2	---	---	0 B	2.96	0.073	0.154	0.012	0	0	0	---	---	2
3	---	---	0 B	2.27	0.058	0.032	0.019	0	0	0	---	---	3
4	---	---	0 B	2.75	0.055	0.062	0.021	0	0	0	---	---	4
5	---	---	0 B	2.22	0.071	0.058	0.025	0	0	0	---	---	5
6	---	---	0 B	1.48	0.061	0.044	0.073	0	0	0	---	---	6
7	---	---	0 B	1.23	0.049	0.149	0.418	0	0	0	---	---	7
8	---	---	0 B	0.944	0.044	3.45	0.214	0	0	0	---	---	8
9	---	---	0.030B	0.802	0.031	2.79	0.094	0	0	0	---	---	9
10	---	---	0.060B	0.730	0.025	1.81	0.145	0	0	0	---	---	10
11	---	---	0.090B	0.661	0.022	0.997	0.151	0	0	0	---	---	11
12	---	---	0.125A	0.572	0.014	0.648	0.112	0	0	0	---	---	12
13	---	---	0.217	0.489	0.019	0.498	0.083	0	0	0	---	---	13
14	---	---	0.391	0.429	0.010	0.371	0.055	0	0	0	---	---	14
15	---	---	0.292	0.389	0.007	0.257	0.033	0	0	0	---	---	15
16	---	---	0.265	0.350	0.075	0.186	0.019	0	0	0	---	---	16
17	---	---	0.227	0.296	0.290	0.130	0.124	0	0	0	---	---	17
18	---	---	0.150B	0.251	0.259	0.161	0.068	0	0	0	---	---	18
19	---	---	0.100B	0.219	0.221	0.318	0.011	0	0	0	---	---	19
20	---	---	0.050B	0.181	0.245	0.319	0.010	0	0	0	---	---	20
21	---	---	0.001B	0.162	0.199	0.386	0.009	0	0	0	---	---	21
22	---	---	0 B	0.137	0.161	0.229	0.007	0	0	0	---	---	22
23	---	---	0 B	0.108	0.144	0.160	0.006	0	0	0	---	---	23
24	---	---	0 B	0.085	0.106	0.214	0.004	0	0	0	---	---	24
25	---	---	0 B	0.092	0.081	0.178	0.003	0	0	0	---	---	25
26	---	---	0 B	0.080	0.065	0.134	0.002	0	0	0	---	---	26
27	---	---	0 B	0.070	0.155	0.097	0.002	0	0	0	---	---	27
28	---	---	0 B	0.083	0.117	0.068	0	0	0	0	---	---	28
29	---	---	0.002B	0.066	0.005	0.048	0	0	0	0	---	---	29
30	---		1.13	0.073	0.003	0.022	0	0	0	0	---	---	30
31	---		1.99		0.002		0	0		0		---	31
TOTAL	---	---	5.120	23.499	2.744	13.772	1.736	0	0	0	---	---	TOTAL
MEAN	---	---	0.165	0.783	0.089	0.459	0.056	0	0	0	---	---	MEAN
MAX	---	---	1.99	3.32	0.290	3.25	0.418	0	0	0	---	---	MAX
MIN	---	---	0	0.066	0.002	0.002	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.191
MAXIMUM DAILY, 3.32 ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.24 AT 10:07 MT ON JUN 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 29 22 N
LONG 099 10 16 W
DRAINAGE AREA, 496 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	150
FEB	---	AUG	0
MAR	442	SEP	0
APR	2 030	OCT	0
MAY	237	NOV	---
JUN	1 190	DEC	---

TOTAL DISCHARGE, 4 050 dam³

OAK CREEK NEAR STOCKTON - STATION NO. 05NG010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	2.15 B	0.001	0.001	0.004	0	0	0	0	0B	1
2	0B	0B	0 B	1.00 B	0.001	0	0.004	0	0	0	0	0B	2
3	0B	0B	0 B	0.600	0.006	0	0.003	0	0	0	0	0B	3
4	0B	0B	0 B	0.456	0.016	0	0.003	0	0	0	0	0B	4
5	0B	0B	0 B	0.353	0.011	0	0.003	0	0	0	0	0B	5
6	0B	0B	0 B	0.299	0.004	0	0.003	0	0	0	0B	0B	6
7	0B	0B	0 B	0.214	0.002	0	0.045	0	0	0	0B	0B	7
8	0B	0B	0 B	0.152	0.001	0	0.062	0	0	0	0B	0B	8
9	0B	0B	0.036B	0.097	0.001	0	0.009	0	0	0	0B	0B	9
10	0B	0B	0.030B	0.045	0.001	0	0.002	0	0	0	0B	0B	10
11	0B	0B	0.008B	0.011	0.001	0	0.002	0	0	0	0B	0B	11
12	0B	0B	0.011B	0.007	0.001	0	0.001	0	0	0	0B	0B	12
13	0B	0B	0.123B	0.002	0.001	0	0.001	0	0	0	0B	0B	13
14	0B	0B	0.052B	0.002	0.001	0	0.002	0	0	0	0B	0B	14
15	0B	0B	0.018B	0.002	0.001	0	0.001	0	0	0	0B	0B	15
16	0B	0B	0.015B	0.001	0.054	0	0.001	0	0	0	0B	0B	16
17	0B	0B	0.004B	0.001	0.115	0	0.001	0	0	0	0B	0B	17
18	0B	0B	0.003B	0.001	0.079	0	0.001	0	0	0	0B	0B	18
19	0B	0B	0.002B	0.001	0.063	0.001	0.001	0	0	0	0B	0B	19
20	0B	0B	0.001B	0.001	0.039	0.051	0.001	0	0	0	0B	0B	20
21	0B	0B	0 B	0.002	0.027	0.014	0.001	0	0	0	0B	0B	21
22	0B	0B	0 B	0.002	0.014	0.003	0.001	0	0	0	0B	0B	22
23	0B	0B	0 B	0.002	0.005	0.002	0.001	0	0	0	0B	0B	23
24	0B	0B	0 B	0.003	0.002	0.002	0.001	0	0	0	0B	0B	24
25	0B	0B	0 B	0.002	0.001	0.002	0.001	0	0	0	0B	0B	25
26	0B	0B	0 B	0.001	0.001	0.002	0.001	0	0	0	0B	0B	26
27	0B	0B	0 B	0.001	0.001	0.002	0.001	0	0	0	0B	0B	27
28	0B	0B	0 B	0.001	0.001	0.004	0	0	0	0	0B	0B	28
29	0B		0 B	0.001	0.001	0.005	0	0	0	0	0B	0B	29
30	0B		0.483B	0.001	0.001	0.004	0	0	0	0	0B	0B	30
31	0B		1.86 B		0.001		0	0		0		0B	31
TOTAL	0	0	2.646	5.411	0.454	0.093	0.157	0	0	0	0	0	TOTAL
MEAN	0	0	0.085	0.180	0.015	0.003	0.005	0	0	0	0	0	MEAN
MAX	0	0	1.86	2.15	0.115	0.051	0.062	0	0	0	0	0	MAX
MIN	0	0	0	0.001	0.001	0	0	0	0	0	0	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.024
MAXIMUM DAILY, 2.15B ON APR 01
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS,
2.77B AT 01:02 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 44 N
LONG 099 30 49 W
DRAINAGE AREA, 1 030 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	13.6
FEB	0	AUG	0
MAR	229	SEP	0
APR	468	OCT	0
MAY	39.2	NOV	0
JUN	8.04	DEC	0

TOTAL DISCHARGE, 758 dam³

OAK LAKE AT OAK LAKE RESORT - STATION NO. 05NG008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	427.840	428.199	428.512	428.483	428.514	428.492	428.383	428.298	---	---	1
2	---	---	427.844	428.213	428.498	428.453	428.480	428.484	428.395	428.303	---	---	2
3	---	---	427.854	428.243	428.502	428.473	428.520	428.481	428.372	428.327	---	---	3
4	---	---	427.858	428.321	428.510	428.484	428.529	428.472	428.378	428.305	---	---	4
5	---	---	427.851	428.369	428.514	428.495	428.517	428.475	428.380	428.274	---	---	5
6	---	---	427.853	428.373	428.524	428.480	428.522	428.467	428.363	428.286	---	---	6
7	---	---	427.882	428.382	428.505	428.476	428.546	428.471	428.376	428.280	---	---	7
8	---	---	427.918	428.398	428.499	428.483	428.562	428.447	428.369	428.279	---	---	8
9	---	---	427.963	428.424	428.499	428.489	428.560	428.437	428.355	428.288	---	---	9
10	---	---	428.005	428.446	428.508	428.484	428.552	428.435	428.371	428.303	---	---	10
11	---	---	428.030	428.460	428.500	428.490	428.551	428.433	428.350	428.282	---	---	11
12	---	---	428.078	428.472	428.498	428.489	428.558	428.444E	428.338	428.277	---	---	12
13	---	---	428.133	428.479	428.499	428.488	428.571	428.458A	428.336	428.272	---	---	13
14	---	---	428.132	428.486	428.505	428.454	428.546	428.426	428.345	428.270	---	---	14
15	---	---	428.134	428.492	428.496	428.459	428.545	428.434	428.327	428.264	---	---	15
16	---	---	428.131	428.496	428.513	428.455	428.536	428.403	428.326	428.252	---	---	16
17	---	---	428.127	428.500	428.529	428.486	428.533	428.394	428.336	428.254	---	---	17
18	---	---	428.119	428.505	428.534	428.507	428.531	428.398	428.329	428.262	---	---	18
19	---	427.661A	428.112	428.510	428.536	428.510	428.525	428.432	428.323	428.260	---	---	19
20	---	427.890	428.109	428.512	428.540	428.509	428.521	428.438	428.329	428.264	---	---	20
21	---	427.899	428.108	428.509	428.535	428.509	428.512	428.435	428.319	428.267	---	---	21
22	---	427.890	428.103	428.514	428.531	428.498	428.514	428.429	428.315	428.256	---	---	22
23	---	427.877	428.092	428.514	428.523	428.501	428.512	428.421	428.321	428.265	---	---	23
24	---	427.861	428.088	428.511	428.510	428.500	428.508	428.414	428.321	428.254	---	---	24
25	---	427.848	428.084	428.512	428.500	428.496	428.493	428.406	428.316	428.259	---	---	25
26	---	427.843	428.085	428.503	428.509	428.491	428.493	428.403	428.304	428.279	---	---	26
27	---	427.840	428.092	428.493	428.511	428.507	428.516	428.409	428.303	428.257	---	---	27
28	---	427.835	428.097	428.507	428.493	428.505	428.512	428.409	428.297	428.263	---	---	28
29	---		428.112	428.527	428.485	428.507	428.492	428.406	428.303	428.249A	---	---	29
30	---		428.144	428.509	428.497	428.501	428.494	428.404	428.307	428.242E	---	---	30
31	---		428.170		428.508		428.489	428.418		428.238E			31
MEAN	---	---	428.037	428.446	428.510	428.489	428.524	428.435	428.340	428.272	---	---	MEAN
MAX	---	---	428.170	428.522	428.540	428.510	428.571	428.492	428.395	428.327	---	---	MAX
MIN	---	---	427.840	428.199	428.485	428.453	428.480	428.394	428.297	428.238	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 428.571 ON JUL 13
MINIMUM DAILY, 427.835 ON FEB 28
MAXIMUM INSTANTANEOUS,
428.591 AT 10:25 CST ON JUL 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1969 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 40 N
LONG 100 42 30 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
4 770 km²

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.047B	0.714	0.003	0.033	0.017	0	0	---	---	1
2	---	---	0 B	0.059B	0.612	0.008	0.035	0.015	0	0	---	---	2
3	---	---	0 B	0.099B	0.491	0.007	0.043	0.013	0	0	---	---	3
4	---	---	0 B	0.143B	0.411	0.006	0.035	0.010	0	0	---	---	4
5	---	---	0 B	0.127B	0.345	0.005	0.028	0.007	0	0	---	---	5
6	---	---	0 B	0.104B	0.290	0.004	0.046	0.004	0	0	---	---	6
7	---	---	0 B	0.121B	0.246	0.003	0.054	0.001	0	0	---	---	7
8	---	---	0 B	0.129B	0.211	0.040	0.041	0	0	0	---	---	8
9	---	---	0 B	0.136B	0.179	0.069	0.030	0	0	0	---	---	9
10	---	---	0 B	0.167B	0.157	0.058	0.024	0	0	0	---	---	10
11	---	---	0 B	0.563B	0.130	0.054	0.020	0	0	0	---	---	11
12	---	---	0 B	0.936B	0.109	0.051	0.015	0	0	0	---	---	12
13	---	---	0 B	0.400B	0.094	0.061	0.014	0	0	0	---	---	13
14	---	---	0 B	0.389B	0.076	0.082	0.015	0	0	0	---	---	14
15	---	---	0 B	2.12	0.064	0.044	0.023	0	0	0	---	---	15
16	---	---	0 B	1.86	0.104	0.061	0.021	0	0	0	---	---	16
17	---	---	0 B	1.16	0.090	0.046	0.058	0	0	0	---	---	17
18	---	---	0 B	1.17	0.061	0.030	0.033	0	0	0	---	---	18
19	---	---	0 B	1.48	0.047	0.011	0.028	0	0	0	---	---	19
20	---	---	0 B	1.75	0.038	0.016	0.023	0	0	0	---	---	20
21	---	---	0 B	1.63	0.030	0.024	0.017	0	0	0	---	---	21
22	---	---	0 B	1.46	0.023	0.027	0.021	0	0	0	---	---	22
23	---	---	0 B	1.49	0.017	0.026	0.038	0	0	0	---	---	23
24	---	---	0 B	1.28	0.014	0.024	0.033	0	0	0	---	---	24
25	---	---	0 B	0.991	0.013	0.025	0.030	0	0	0	---	---	25
26	---	---	0 B	0.935	0.019	0.025	0.026	0	0	0	---	---	26
27	---	---	0 B	0.944	0.016	0.023	0.027	0	0	0	---	---	27
28	---	---	0 B	0.767	0.017	0.064	0.028	0	0	0	---	---	28
29	---	---	0 B	0.777	0.017	0.051	0.025	0	0	0	---	---	29
30	---		0 B	0.902	0.008	0.028	0.022	0	0	0	---	---	30
31	---		0.035B		0.001		0.019	0		0		---	31
TOTAL	---	---	0.035	24.136	4.644	0.976	0.905	0.067	0	0	---	---	TOTAL
MEAN	---	---	0.001	0.805	0.150	0.033	0.029	0.002	0	0	---	---	MEAN
MAX	---	---	0.035	2.12	0.714	0.082	0.058	0.017	0	0	---	---	MAX
MIN	---	---	0	0.047	0.001	0.003	0.014	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.126
MAXIMUM DAILY, 2.12 ON APR 15
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.36 AT 17:18 CST ON APR 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 33 N
LONG 100 35 16 W
DRAINAGE AREA, 372 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	78.2
FEB	---	AUG	5.79
MAR	3.02	SEP	0
APR	2 090	OCT	0
MAY	401	NOV	---
JUN	84.3	DEC	---

TOTAL DISCHARGE, 2 660 dam³

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.23	0.563	0.004	0.001	0.003	0	0	---	---	1
2	---	---	0 B	2.95	0.510	0.006	0.001	0.002	0	0	---	---	2
3	---	---	0 B	2.49	0.349	0.006	0.003	0.001	0	0	---	---	3
4	---	---	0 B	3.65	0.224	0.006	0.002	0	0	0	---	---	4
5	---	---	0 B	3.57	0.115	0.009	0.002	0	0	0	---	---	5
6	---	---	0 B	2.76	0.027	0.008	0.004	0	0	0	---	---	6
7	---	---	0 B	2.22	0.013	0.008	0.007	0	0	0	---	---	7
8	---	---	0 B	2.06	0.007	0.012	0.010	0	0	0	---	---	8
9	---	---	0 B	1.95	0.005	0.010	0.011	0	0	0	---	---	9
10	---	---	0 B	1.56	0.006	0.010	0.012	0	0	0	---	---	10
11	---	---	0 B	1.38	0.004	0.012	0.014	0	0	0	---	---	11
12	---	---	0.002B	1.20	0.004	0.012	0.015	0	0	0	---	---	12
13	---	---	0.312B	1.80	0.004	0.011	0.016	0	0	0	---	---	13
14	---	---	0.289B	1.47	0.001	0.010	0.016	0	0	0	---	---	14
15	---	---	0.118B	1.42	0.006	0.008	0.014	0	0	0	---	---	15
16	---	---	0.044B	1.32	0.154	0.007	0.014	0	0	0	---	---	16
17	---	---	0.013B	1.17	0.490	0.006	0.013	0	0	0	---	---	17
18	---	---	0.013B	0.972	0.347	0.110	0.012	0	0	0	---	---	18
19	---	---	0.013B	0.896	0.393	0.472	0.011	0	0	0	---	---	19
20	---	---	0.012B	0.938	0.065	0.150	0.010	0	0	0	---	---	20
21	---	---	0.012B	1.03	0.015	0.043	0.009	0	0	0	---	---	21
22	---	---	0.012B	1.17	0.010	0.011	0.008	0	0	0	---	---	22
23	---	---	0.012B	1.20	0.006	0.004	0.008	0	0	0	---	---	23
24	---	---	0.012B	1.00	0.005	0.001	0.008	0	0	0	---	---	24
25	---	---	0.012B	1.14	0.003	0	0.007	0	0	0	---	---	25
26	---	---	0.014B	1.11	0.004	0	0.006	0	0	0	---	---	26
27	---	---	0.029B	0.943	0.001	0	0.010	0	0	0	---	---	27
28	---	---	0.066B	0.866	0.002	0	0.010	0	0	0	---	---	28
29	---	---	0.363B	0.730	0.001	0	0.009	0	0	0	---	---	29
30	---		1.55	0.600	0.001	0	0.008	0	0	0	---	---	30
31	---		1.95		0.001		0.005	0		0		---	31
TOTAL	---	---	4.848	47.795	3.336	0.936	0.276	0.006	0	0	---	---	TOTAL
MEAN	---	---	0.156	1.59	0.108	0.031	0.009	0	0	0	---	---	MEAN
MAX	---	---	1.95	3.65	0.563	0.472	0.016	0.003	0	0	---	---	MAX
MIN	---	---	0	0.600	0.001	0	0.001	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.233
MAXIMUM DAILY, 3.65 ON APR 04
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
6.45 AT 13:41 CST ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 30 N
LONG 100 23 35 W
DRAINAGE AREA, 1 150 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	23.8
FEB	---	AUG	0.518
MAR	419	SEP	0
APR	4 130	OCT	0
MAY	288	NOV	---
JUN	80.9	DEC	---

TOTAL DISCHARGE, 4 940 dam³

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.106B	3.33 B	5.69	3.14	1.05	0.240	0.077	0.163	---	---	1
2	---	---	0.110B	2.75 B	5.62	2.89	0.966	0.211	0.078	0.141	---	---	2
3	---	---	0.114B	2.12 B	5.63	2.41	0.974	0.183	0.077	0.112	---	---	3
4	---	---	0.118B	1.52 B	6.70	2.10	1.12	0.169	0.087	0.155	---	---	4
5	---	---	0.122B	0.999B	7.25	2.20	1.07	0.160	0.076	0.142	---	---	5
6	---	---	0.130B	1.12 B	7.51	2.42	1.13	0.139	0.071	0.191	---	---	6
7	---	---	0.140B	0.954B	7.91	2.13	2.31	0.122	0.071	0.182	---	---	7
8	---	---	0.145B	0.550B	7.91	7.38	2.29	0.110	0.069	0.179	---	---	8
9	---	---	0.710B	0.621B	7.45	10.2	1.98	0.090	0.066	0.186	---	---	9
10	---	---	1.21 B	0.544B	6.89	6.87	1.62	0.087	0.064	0.183	---	---	10
11	---	---	0.664B	0.641B	6.86	5.26	1.40	0.091	0.068	0.178	---	---	11
12	---	---	0.289B	0.614B	7.03	4.50	1.23	0.120	0.061	0.162	---	---	12
13	---	---	0.585B	1.15 B	5.83	3.85	1.10	0.119	0.061	0.176	---	---	13
14	---	---	0.510B	1.23 B	5.21	3.33	0.958	0.149	0.062	0.191	---	---	14
15	---	---	0.476B	1.02 B	4.68	2.92	0.881	0.153	0.069	0.181	---	---	15
16	---	---	0.436B	1.28 B	15.4	2.50	0.798	0.143	0.077	0.196	---	---	16
17	---	---	0.323B	1.09 B	36.4	2.19	0.843	0.120	0.083	0.195	---	---	17
18	---	---	0.349B	1.46 B	27.1	1.95	0.859	0.115	0.077	0.188	---	---	18
19	---	---	0.280B	3.60 B	19.0	1.79	0.755	0.107	0.079	0.169	---	---	19
20	---	---	0.285B	6.89 B	13.2	2.83	0.691	0.096	0.085	0.211	---	---	20
21	---	---	0.248B	11.7 B	9.85	4.25	0.635	0.091	0.144	0.194	---	---	21
22	---	---	0.215B	16.6 B	9.97	3.84	0.596	0.084	0.218	0.192	---	---	22
23	---	---	0.310B	19.9 B	9.42	3.18	0.539	0.080	0.157	0.205	---	---	23
24	---	---	0.304B	27.6 B	7.63	2.68	0.481	0.089	0.133	0.213	---	---	24
25	---	---	0.231B	28.3	5.97	2.16	0.421	0.101	0.103	0.197	---	---	25
26	---	---	0.172B	26.7	4.86	1.83	0.394	0.235	0.095	0.187	---	---	26
27	---	---	0.172B	17.3	4.16	1.58	0.390	0.198	0.091	0.194	---	---	27
28	---	---	0.185B	11.6	3.59	1.50	0.367	0.160	0.096	0.215	---	---	28
29	---	---	0.254B	9.11	3.42	1.35	0.348	0.135	0.117	0.227	---	---	29
30	---		0.705B	7.66	2.79	1.20	0.290	0.112	0.167	0.220	---	---	30
31	---		2.40 B		2.53		0.258	0.097		0.212A		---	31
TOTAL	---	---	12.298	209.953	273.16	96.43	28.744	4.214	2.779	5.757	---	---	TOTAL
MEAN	---	---	0.397	7.00	8.81	3.21	0.927	0.136	0.093	0.186	---	---	MEAN
MAX	---	---	2.40	28.3	36.4	10.2	2.31	0.240	0.218	0.227	---	---	MAX
MIN	---	---	0.106	0.544	2.53	1.20	0.258	0.080	0.061	0.132	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.59
MAXIMUM DAILY, 36.4 ON MAY 17
MINIMUM DAILY, 0.061 ON SEP 12
MAXIMUM INSTANTANEOUS,
40.6 AT 04:10 CST ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 03 04 N
LONG 099 47 15 W
DRAINAGE AREA, 342 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 480
FEB	---	AUG	364
MAR	1 060	SEP	240
APR	18 100	OCT	497
MAY	23 600	NOV	---
JUN	8 330	DEC	---

TOTAL DISCHARGE, 54 700 dam³

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.28B	1.10B	0.995B	0.897B	23.7	59.7	44.0	19.6	8.10	9.73	12.1	3.75B	1
2	1.27B	1.10B	0.990B	0.893B	23.3	57.7	43.4	20.8	8.04	8.41	12.0	3.59B	2
3	1.26B	1.09B	0.985B	0.890B	23.6	55.6	42.5	21.4	9.21	8.91	12.0	3.42B	3
4	1.25B	1.09B	0.980B	0.887B	25.2	53.7	42.2	22.6	10.2	10.1	11.7	3.26B	4
5	1.25B	1.09B	0.975B	0.884B	28.3	51.7	41.6	23.2	10.7	9.15	11.5	3.10B	5
6	1.24B	1.09B	0.972B	0.867B	32.8	48.6	40.3	22.4	11.4	8.76	11.3	2.99B	6
7	1.23B	1.09B	0.969B	0.876B	37.5	46.3	39.2	21.0	11.5	10.5	10.8	2.88B	7
8	1.22B	1.08B	0.966B	0.870B	42.3	44.0	38.1	19.8	12.0	10.9	10.7	2.76B	8
9	1.21B	1.08B	0.963B	0.863B	49.5	42.2	37.6	18.6	11.5	10.6	10.7	2.65B	9
10	1.20B	1.08B	0.960B	0.858B	54.9	40.2	36.9	17.8	11.8	10.5	11.1	2.54B	10
11	1.19B	1.08B	0.958B	0.870B	59.3	39.1	35.9	16.9	12.6	10.9	11.1	2.47B	11
12	1.18B	1.07B	0.956B	0.900B	63.4	41.6	34.7	15.9	12.2	11.5	10.8	2.40B	12
13	1.18B	1.07B	0.954B	0.889B	68.0	44.6	33.1	15.3	11.7	12.4	10.5	2.34B	13
14	1.17B	1.06B	0.952B	0.886B	71.3	49.3	31.6	14.7	11.5	12.4	10.2	2.27B	14
15	1.16B	1.05B	0.950B	0.908B	78.0	52.5	30.1	14.0	11.3	12.1	9.69	2.20B	15
16	1.16B	1.05B	0.945B	0.906B	89.1	56.5	28.7	13.9	11.1	12.8	9.02	2.18B	16
17	1.15B	1.04B	0.940B	0.905B	91.1	57.7	27.5	13.5	11.4	13.4	8.38	2.16B	17
18	1.14B	1.04B	0.935B	0.918B	92.8	57.1	26.5	13.0	11.6	13.7	7.97	2.14B	18
19	1.13B	1.03B	0.930B	0.960B	85.3	55.6	25.2	12.3	11.1	14.0	7.75	2.12B	19
20	1.13B	1.03B	0.925B	0.967B	81.4	53.9	25.4	11.3	11.0	13.6	7.52B	2.10B	20
21	1.13B	1.03B	0.924B	1.08 B	80.0	55.2	24.8	10.4	12.1	13.5	7.09B	2.08B	21
22	1.12B	1.02B	0.921B	1.33 B	80.5	61.5	24.1	9.74	12.2	13.6	6.66B	2.06B	22
23	1.12B	1.02B	0.919B	2.59 B	81.6	67.1	23.5	9.71	11.5	13.6	6.24B	2.04B	23
24	1.11B	1.01B	0.917B	9.87 B	82.0	67.0	23.1	9.39	10.9	13.6	5.81B	2.02B	24
25	1.11B	1.01B	0.915B	16.9	81.5	64.4	22.4	8.68	10.8	13.6	5.38B	2.00B	25
26	1.11B	1.01B	0.912B	17.8	80.4	60.0	21.8	8.18	10.7	13.7	5.09B	1.97B	26
27	1.11B	1.00B	0.910B	21.0	77.5	55.7	21.0	7.95	10.0	14.2	4.79B	1.93B	27
28	1.10B	1.00B	0.907B	24.0	73.3	51.9	20.2	7.72	9.92	13.7	4.50B	1.90B	28
29	1.10B		0.905B	24.9	70.1	48.7	19.6	7.52	10.4	13.3	4.20B	1.87B	29
30	1.10B		0.902B	23.9	66.5	45.6	18.6	6.60	10.3	12.8	3.91B	1.83B	30
31	1.10B		0.900B		62.5		19.4	7.15		12.1		1.80B	31
TOTAL	36.21	29.51	29.232	161.272	1 956.4	1 584.7	944.0	440.81	328.77	372.06	260.50	74.82	TOTAL
MEAN	1.17	1.05	0.943	5.38	63.1	52.8	30.5	14.2	11.0	12.0	8.68	2.41	MEAN
MAX	1.28	1.10	0.995	24.9	92.8	67.1	44.0	23.2	12.6	14.2	12.1	3.75	MAX
MIN	1.10	1.00	0.900	0.858	23.3	39.1	18.6	6.60	8.04	8.41	3.91	1.80	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 17.0
MAXIMUM DAILY, 92.8 ON MAY 18
MINIMUM DAILY, 0.858B ON APR 10
MAXIMUM INSTANTANEOUS, 96.9 AT 14:21 CST ON MAY 18

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 59 45 N
LONG 097 21 23 W
DRAINAGE AREA, 6 130 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	3 130	JUL	81 600
FEB	2 550	AUG	38 100
MAR	2 530	SEP	28 400
APR	13 900	OCT	32 100
MAY	169 000	NOV	22 500
JUN	137 000	DEC	6 460

TOTAL DISCHARGE, 537 000 dam³

OTTER LAKE NEAR BROAD VALLEY - STATION NO. 05SD801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	273.692	273.674	273.701	273.625	---	273.482A	---	---	1
2	---	---	---	---	273.692	273.652	273.683	273.619	---	273.476E	---	---	2
3	---	---	---	---	273.686	273.659	273.689	273.607	---	273.470	---	---	3
4	---	---	---	---	273.683	273.671	273.695	273.601	---	273.457	---	---	4
5	---	---	---	---	273.680	273.671	273.695	273.604	---	273.454	---	---	5
6	---	---	---	---	273.677	273.665	273.695	273.601	---	273.451	---	---	6
7	---	---	---	---	273.674	273.662	273.698	273.598	---	273.448	---	---	7
8	---	---	---	---	273.674	273.668	273.698	273.588	---	273.448	---	---	8
9	---	---	---	---	273.680	273.674	273.692	273.579	---	273.454	---	---	9
10	---	---	---	---	273.683	273.674	273.692	273.576	---	273.460	---	---	10
11	---	---	---	---	273.680	273.677	273.689	273.592	---	273.442	---	---	11
12	---	---	---	---	273.677	273.698	273.683	273.576	---	273.442	---	---	12
13	---	---	---	---	273.674	273.686	273.686	273.579	---	273.439	---	---	13
14	---	---	---	---	273.671	273.674	273.680	273.573	---	273.430	---	---	14
15	---	---	---	---	273.680	273.680	273.671	273.573	---	273.433	---	---	15
16	---	---	---	---	273.689	273.668	273.668	273.567	---	273.427	---	---	16
17	---	---	---	---	273.701	273.662	273.674	273.564	---	273.421	---	---	17
18	---	---	---	---	273.720	273.665	273.671	273.558	---	273.430	---	---	18
19	---	---	---	---	273.720	273.680	273.668	273.558	---	273.433	---	---	19
20	---	---	---	---	273.713	273.698	273.668	273.555	---	273.427	---	---	20
21	---	---	---	---	273.713	273.695	273.668	273.552	---	273.430	---	---	21
22	---	---	---	---	273.716	273.686	273.665	273.555	---	273.424	---	---	22
23	---	---	---	---	273.713	273.689	273.665	273.552	---	273.430	---	---	23
24	---	---	---	---	273.713	273.689	273.659	273.546	---	273.430	---	---	24
25	---	---	---	273.662A	273.713	273.689	273.652	273.570	---	273.433	---	---	25
26	---	---	---	273.674	273.704	273.683	273.625	273.573A	---	273.430	---	---	26
27	---	---	---	273.674	273.701	273.677	273.649	273.573	---	273.418	---	---	27
28	---	273.610A	---	273.671	273.695	273.674	273.646	273.576	---	273.442	---	---	28
29	---	---	---	273.683	273.689	273.698	273.637	273.579	---	273.427	---	---	29
30	---		---	273.692	273.686	273.698	273.625	273.573	---	273.433	---	---	30
31	---		---	273.695	273.686	273.698	273.625	273.570		273.436A		---	31
					273.686		273.625	273.573A					
MEAN	---	---	---	---	273.692	273.678	273.671	273.577	---	273.441	---	---	MEAN
MAX	---	---	---	---	273.720	273.698	273.701	273.625	---	273.482	---	---	MAX
MIN	---	---	---	---	273.671	273.652	273.625	273.546	---	273.418	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 273.720 ON MAY 18

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 58 59 N
LONG 097 46 11 W
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA, 72.5 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.102B	0.234B	10.5	28.0	17.7	7.42	2.01	1.18	---	---	1
2	---	---	0.102B	0.364B	11.5	26.4	17.9	7.27	1.97	1.13	---	---	2
3	---	---	0.102B	1.37 B	13.0	24.8	17.6	6.80	2.00	1.20	---	---	3
4	---	---	0.106B	4.29 B	17.9	23.2	19.5	6.44	1.88	1.22	---	---	4
5	---	---	0.110B	6.56 B	23.6	22.6	21.5	6.27	1.83	1.16	---	---	5
6	---	---	0.110B	8.93 B	26.9	21.8	23.0	6.19	1.71	1.11	---	---	6
7	---	---	0.110B	9.37 B	28.8	20.9	24.6	5.98	1.65	1.06	---	---	7
8	---	---	0.114B	7.63 B	30.5	20.0	25.3	5.56	1.62	1.07	---	---	8
9	---	---	0.114B	7.13 B	31.9	19.4	25.5	5.09	1.56	1.14	---	---	9
10	---	---	0.118B	6.46 B	35.3	19.0	25.4	4.73	1.50	1.14	---	---	10
11	---	---	0.118B	6.27 B	37.4	18.7	25.0	4.42	1.48	1.20	---	---	11
12	---	---	0.122B	6.07 B	37.9	18.1	24.5	4.15	1.40	1.13	---	---	12
13	---	---	0.122B	5.91 B	37.4	17.3	23.9	3.91	1.42	1.28	---	---	13
14	---	---	0.130B	5.79 B	36.9	16.3	23.4	3.69	1.42	1.45	---	---	14
15	---	---	0.130B	5.71 B	36.4	15.4	22.6	3.45	1.38	1.29	---	---	15
16	---	---	0.130B	5.63 B	36.8	14.1	22.1	3.23	1.32	1.13	---	---	16
17	---	---	0.130B	5.49 B	37.3	13.2	21.6	3.11	1.34	1.08	---	---	17
18	---	---	0.130D	5.40 B	37.4	12.5	20.9	2.96	1.34	0.984	---	---	18
19	---	---	0.130B	5.35 B	38.0	11.9	20.3	2.83	1.26	0.991	---	---	19
20	---	---	0.130B	5.49 B	40.8	11.3	19.5	2.69	1.23	1.04	---	---	20
21	---	---	0.134B	12.9 B	42.2	10.6	18.5	2.56	1.25	1.04	---	---	21
22	---	---	0.134B	12.5 B	42.5	10.0	17.2	2.51	1.18	1.04	---	---	22
23	---	---	0.134B	12.3	41.7	9.44	16.1	2.48	1.17	1.05	---	---	23
24	---	---	0.138B	11.3	40.5	9.05	15.0	2.32	1.22	1.03	---	---	24
25	---	---	0.138B	11.3	39.1	8.40	13.5	2.29	1.22	1.01	---	---	25
26	---	---	0.142B	11.5	37.4	7.62	12.2	2.24	1.20	1.04	---	---	26
27	---	---	0.146B	11.4	35.7	8.12	11.1	2.40	1.17	1.03	---	---	27
28	---	---	0.150B	11.5	34.0	9.83	10.1	2.33	1.14	0.920	---	---	28
29	---	---	0.156B	10.8	32.4	12.6	9.05	2.24	1.11	0.939	---	---	29
30	---	---	0.170B	10.5	30.9	15.7	8.58	2.14	1.17	0.914	---	---	30
31	---	---	0.198B		29.4		7.97	2.07		0.920		---	31
TOTAL	---	---	4.010	227.448	1 012.0	476.26	581.10	121.77	43.12	33.918	---	---	TOTAL
MEAN	---	---	0.129	7.58	32.6	15.9	18.7	3.93	1.44	1.09	---	---	MEAN
MAX	---	---	0.198	12.9	42.5	28.0	25.5	7.42	2.01	1.45	---	---	MAX
MIN	---	---	0.102	0.234	10.5	7.62	7.97	2.07	1.11	0.914	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 10.2
MAXIMUM DAILY, 42.5 ON MAY 22
MINIMUM DAILY, 0.102B ON MAR 01
MAXIMUM INSTANTANEOUS,
42.8 AT 14:05 CST ON MAY 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 15 N
LONG 101 06 30 W
DRAINAGE AREA, 3 350 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	50 200
FEB	---	AUG	10 500
MAR	346	SEP	3 730
APR	19 700	OCT	2 930
MAY	87 400	NOV	---
JUN	41 100	DEC	---

TOTAL DISCHARGE, 216 000 dam³

OXFORD LAKE AT OXFORD HOUSE - STATION NO. 04AA002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	187.338	187.373	187.344	187.255	187.196	---	---	1
2	---	---	---	---	---	187.342	187.382	187.341	187.254	187.172	---	---	2
3	---	---	---	---	---	187.346	187.383	187.338	187.250	187.182	---	---	3
4	---	---	---	---	---	187.351	187.378	187.326	187.261	187.187	---	---	4
5	---	---	---	---	---	187.352	187.378	187.326	187.253	187.184	---	---	5
6	---	---	---	---	---	187.362	187.378	187.326	187.234	187.177	---	---	6
7	---	---	---	---	---	187.361	187.377	187.324	187.242	187.176	---	---	7
8	---	---	---	---	---	187.363	187.377	187.315	187.215	187.166	---	---	8
9	---	---	---	---	---	187.363	187.392	187.289	187.209	187.157	---	---	9
10	---	---	---	---	187.168	187.366	187.396	187.295	187.213	187.153	---	---	10
11	---	---	---	---	187.169	187.373	187.387	187.285	187.207	187.173	---	---	11
12	---	---	---	---	187.170	187.387	187.395	187.284	187.211	187.165	---	---	12
13	---	---	---	---	187.187	187.383	187.394	187.284	187.207	187.147	---	---	13
14	---	---	---	---	187.193	187.390A	187.388	187.283	187.222	187.166	---	---	14
15	---	---	---	---	187.198	187.401	187.383	187.278	187.221	187.162	---	---	15
16	---	---	---	---	187.204	187.402	187.386	187.268	187.219	187.156	---	---	16
17	---	---	---	---	187.216	187.395	187.371	187.263	187.220	187.134	---	---	17
18	187.028A	---	---	---	187.223	187.394	187.375	187.244	187.239	187.128	---	---	18
19	---	---	---	---	187.228	187.401	187.378	187.242	187.230	---	---	---	19
20	---	---	---	---	187.235	187.395	187.372	187.245	187.202	---	---	---	20
21	---	---	---	---	187.245	187.390	187.370	187.246	187.191	---	---	---	21
22	---	---	---	---	187.260	187.387	187.364	187.238	187.188	---	---	---	22
23	---	---	---	---	187.267	187.391	187.363	187.251E	187.207	---	---	---	23
24	---	---	---	---	187.275	187.387	187.360	187.245E	187.191	---	---	---	24
25	---	---	---	---	187.287	187.356	187.346	187.251E	187.198	---	---	---	25
26	---	---	---	---	187.296	187.369	187.345	187.251E	187.204	---	---	---	26
27	---	---	187.058A	---	187.303	187.376	187.345	187.255E	187.199	---	---	---	27
28	---	---	---	---	187.306	187.349	187.351	187.262E	187.190	---	---	---	28
29	---		---	---	187.315	187.357	187.359	187.250E	187.190	---	---	---	29
30	---		---	---	187.327	187.364	187.345	187.232E	187.198	---	---	---	30
31	---		---		187.331		187.343	187.238E		---		---	31
MEAN	---	---	---	---	---	187.373	187.372	187.278	187.218	---	---	---	MEAN
MAX	---	---	---	---	---	187.402	187.396	187.344	187.261	---	---	---	MAX
MIN	---	---	---	---	---	187.338	187.343	187.232	187.188	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 187.402 ON JUN 16

MAXIMUM INSTANTANEOUS,
187.426 AT 16:48 CST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 56 10 N
LONG 095 17 30 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM
APPLY -183.565 m ADJUSTMENT TO CONVERT TO ASS'MED DATUM

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.044B	0.003	0	---	---	---	---	---	---	1
2	---	---	0 B	0.025B	0.003	0.068	---	---	---	---	---	---	2
3	---	---	0 B	0.019B	0.002	0.174	---	---	---	---	---	---	3
4	---	---	0 B	0.063B	0.002	0.096	---	---	---	---	---	---	4
5	---	---	0 B	0.045B	0.002	0.061	---	---	---	---	---	---	5
6	---	---	0 B	0.029B	0.001	0.053	---	---	---	---	---	---	6
7	---	---	0 B	0.022B	0.001	0.051	---	---	---	---	---	---	7
8	---	---	0 B	0.020B	0	0.081	---	---	---	---	---	---	8
9	---	---	0 B	0.017B	0	0.099	---	---	---	---	---	---	9
10	---	---	0 B	0.046B	0	0.081	---	---	---	---	---	---	10
11	---	---	0 B	0.055B	0	0.075	---	---	---	---	---	---	11
12	---	---	0 B	0.021B	0	0.153	---	---	---	---	---	---	12
13	---	---	0.002B	0.020	0.001	0.179	---	---	---	---	---	---	13
14	---	---	0.028B	0.018	0.003	0.142	---	---	---	---	---	---	14
15	---	---	0.008B	0.015B	0.002	0.122	---	---	---	---	---	---	15
16	---	---	0.016B	0.013	0.006	0.100	---	---	---	---	---	---	16
17	---	---	0.015B	0.009	0.027	0.076	---	---	---	---	---	---	17
18	---	---	0.013B	0.004	0.024	0.051	---	---	---	---	---	---	18
19	---	---	0.012B	0.003	0.020	0.039	---	---	---	---	---	---	19
20	---	---	0.004B	0.002	0.018	0.051	---	---	---	---	---	---	20
21	---	---	0.005B	0.002	0.016	0.095	---	---	---	---	---	---	21
22	---	---	0.006B	0.002	0.016	0.088	---	---	---	---	---	---	22
23	---	---	0.006B	0.004	0.014	0.055	---	---	---	---	---	---	23
24	---	---	0.005B	0.003	0.012	0.034	---	---	---	---	---	---	24
25	---	---	0.005B	0.005	0.009	0.019	---	---	---	---	---	---	25
26	---	---	0.005B	0.004	0.007	0.010	---	---	---	---	---	---	26
27	---	---	0.005B	0.004	0.005	0.005	---	---	---	---	---	---	27
28	---	---	0.007B	0.006	0.003	0.003	---	---	---	---	---	---	28
29	---	---	0.015B	0.008	0.002	0.002	---	---	---	---	---	---	29
30	---		0.023B	0.006	0.001	0.001	---	---	---	---	---	---	30
31	---		0.027B		0		---	---		---		---	31
TOTAL	---	---	0.207	0.534	0.200	2.064	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.007	0.018	0.007	0.069	---	---	---	---	---	---	MEAN
MAX	---	---	0.028	0.063	0.027	0.179	---	---	---	---	---	---	MAX
MIN	---	---	0	0.002	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.025
MAXIMUM DAILY, 0.179 ON JUN 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.207 AT 05:24 CST ON JUN 03

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 23 05 N
LONG 096 43 53 W
DRAINAGE AREA, 46.6 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	17.9	SEP	---
APR	46.1	OCT	---
MAY	17.3	NOV	---
JUN	178	DEC	---

TOTAL DISCHARGE, 259 dam³

PARTRIDGE CREEK NEAR ST. MARTIN - STATION NO. 05LM002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	244.091	244.168	---	---	---	---	---	---	1
2	---	---	---	---	244.096	244.008	---	---	---	---	---	---	2
3	---	---	---	---	244.110	243.992	---	---	---	---	---	---	3
4	---	---	---	---	244.110	244.085	---	---	---	---	---	---	4
5	---	---	---	---	244.115	244.105	---	---	---	---	---	---	5
6	---	---	---	---	244.104	244.118	---	---	---	---	---	---	6
7	---	---	---	---	244.082	244.107	---	---	---	---	---	---	7
8	---	---	---	---	244.086	244.099	---	---	---	---	---	---	8
9	---	---	---	---	244.099	244.120	---	---	---	---	---	---	9
10	---	---	---	---	244.108	244.145	---	---	---	---	---	---	10
11	---	---	---	---	244.090	244.213	---	---	---	---	---	---	11
12	---	---	---	---	244.102	244.199	---	---	---	---	---	---	12
13	---	---	---	---	244.097	244.189	---	---	---	---	---	---	13
14	---	---	---	---	244.113	244.162	---	---	---	---	---	---	14
15	---	---	---	---	244.115	244.289	---	---	---	---	---	---	15
16	---	---	---	---	244.054	244.345	---	---	---	---	---	---	16
17	---	---	---	---	244.015	244.360	---	---	---	---	---	---	17
18	---	---	---	---	244.088	244.382	---	---	---	---	---	---	18
19	---	---	---	---	244.132	244.392	---	---	---	---	---	---	19
20	---	---	---	---	244.171	244.377	---	---	---	---	---	---	20
21	---	---	---	---	244.161	244.378	---	---	---	---	---	---	21
22	---	---	---	---	244.166	244.336	---	---	---	---	---	---	22
23	---	---	---	---	244.150	244.313	---	---	---	---	---	---	23
24	---	---	---	---	244.152	244.353	---	---	---	---	---	---	24
25	---	---	---	---	244.144	244.362	---	---	---	---	---	---	25
26	---	---	---	---	244.140	244.359	---	---	---	---	---	---	26
27	---	---	---	---	244.127	244.370	---	---	---	---	---	---	27
28	---	---	---	---	244.097	244.378	---	---	---	---	---	---	28
29	---		---	---	244.111	244.381	---	---	---	---	---	---	29
30	---		---	244.092A	244.130	244.387	---	---		---		---	30
31	---		---		244.188		---	---		---		---	31
MEAN	---	---	---	---	244.114	244.250	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	244.188	244.392	---	---	---	---	---	---	MAX
MIN	---	---	---	---	244.015	243.992	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 244.392 ON JUN 19

MAXIMUM INSTANTANEOUS,
244.408 AT 17:39 CST ON JUN 18

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM 1928 ADJUSTMENT

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 42 30 N
LONG 098 39 30 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
142 km²

PELICAN CREEK SOUTH TRIBUTARY NEAR BIRNIE - STATION NO. 05LL027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.061B	0.025	0.021	0.001	0	0	0	---	---	1
2	---	---	0 B	0.088B	0.024	0.026	0.001	0	0	0	---	---	2
3	---	---	0 B	0.096B	0.024	0.018	0.002	0	0	0	---	---	3
4	---	---	0 B	0.052B	0.031	0.018	0.001	0	0	0	---	---	4
5	---	---	0 B	0.025B	0.034	0.017	0.001	0	0	0	---	---	5
6	---	---	0 B	0.020B	0.035	0.016	0.004	0	0	0	---	---	6
7	---	---	0 B	0.016B	0.035	0.014	0.003	0	0	0	---	---	7
8	---	---	0 B	0.014B	0.033	0.024	0.007	0	0	0	---	---	8
9	---	---	0 B	0.012B	0.029	0.017	0.007	0	0	0	---	---	9
10	---	---	0 B	0.009B	0.027	0.014	0.005	0	0	0	---	---	10
11	---	---	0 B	0.014B	0.026	0.017	0.004	0	0	0	---	---	11
12	---	---	0 B	0.015	0.024	0.015	0.003	0	0	0	---	---	12
13	---	---	0 B	0.017	0.022	0.011	0.002	0A	0	0	---	---	13
14	---	---	0 B	0.017	0.020	0.011	0.002	0	0	0	---	---	14
15	---	---	0 B	0.017	0.022	0.009	0.002	0	0	0	---	---	15
16	---	---	0 B	0.016	0.624	0.009	0.001	0	0	0	---	---	16
17	---	---	0 B	0.019	0.331	0.008	0.003	0	0	0	---	---	17
18	---	---	0 B	0.041	0.231	0.006	0.002	0	0	0	---	---	18
19	---	---	0 B	0.069	0.127	0.008	0.002	0	0	0	---	---	19
20	---	---	0 B	0.083	0.089	0.012	0.002	0	0	0	---	---	20
21	---	---	0 B	0.139	0.076	0.008	0.002	0	0	0	---	---	21
22	---	---	0 B	0.161	0.065	0.006	0.002	0	0	0	---	---	22
23	---	---	0 B	0.155	0.054	0.005	0.001	0	0	0	---	---	23
24	---	---	0 B	0.132	0.046	0.004	0	0	0	0	---	---	24
25	---	---	0 B	0.156	0.040	0.003	0	0	0	0	---	---	25
26	---	---	0 B	0.131	0.035	0.003	0	0	0	0	---	---	26
27	---	---	0 B	0.072	0.033	0.004	0	0	0	0	---	---	27
28	---	---	0 B	0.045	0.031	0.003	0	0	0	0	---	---	28
29	---	---	0 B	0.050	0.030	0.002	0	0	0	0	---	---	29
30	---		0.015B	0.036	0.028	0.002	0	0	0	0	---	---	30
31	---		0.069B		0.025		0	0		0		---	31
TOTAL	---	---	0.084	1.778	2.476	0.331	0.060	0	0	0	---	---	TOTAL
MEAN	---	---	0.003	0.059	0.080	0.011	0.002	0	0	0	---	---	MEAN
MAX	---	---	0.069	0.161	0.624	0.026	0.007	0	0	0	---	---	MAX
MIN	---	---	0	0.009	0.020	0.002	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.019
MAXIMUM DAILY, 0.624 ON MAY 16
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.83 AT 14:43 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 28 36 N
LONG 099 28 33 W
DRAINAGE AREA, 9.09 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5.18
FEB	---	AUG	0
MAR	7.26	SEP	0
APR	154	OCT	0
MAY	214	NOV	---
JUN	28.6	DEC	---

TOTAL DISCHARGE, 40[illegible] dam³

PELICAN LAKE NEAR NINETTE - STATION NO. 05OA802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	410.643	410.671	410.6[illegible]4	410.647E	---	---	---	---	1
2	---	---	---	---	410.643	410.671	410.694	410.646E	---	---	---	---	2
3	---	---	---	---	410.643	410.670	410.683	410.646	---	---	---	---	3
4	---	---	---	---	410.642	410.670	410.693	410.646	---	---	---	---	4
5	---	---	---	---	410.657	410.670	410.693	410.641	---	---	---	---	5
6	---	---	---	---	410.627	410.670	410.693	410.641	---	---	---	---	6
7	---	---	---	---	410.642	410.678E	410.698	410.640	---	---	---	---	7
8	---	---	---	---	410.641	410.686E	410.692	410.640	---	---	---	---	8
9	---	---	---	---	410.631	410.694	410.692	410.635	---	---	---	---	9
10	---	---	---	---	410.641	410.689	410.692	410.635	---	---	---	410.302	10
11	410.537	---	---	---	410.641	410.689	410.692	410.639	---	---	---	---	11
12	---	---	---	---	410.641	410.688	410.691	410.639	410.451	---	---	---	12
13	---	---	---	---	410.640	410.688	410.691	410.634	---	---	---	---	13
14	---	---	---	---	410.640	410.688	410.686	410.634	---	---	---	---	14
15	---	---	---	---	410.661E	410.693	410.686	410.634	---	---	---	---	15
16	---	---	---	---	410.683E	410.692	410.685	410.628	---	---	---	---	16
17	---	---	---	---	410.704	410.687	410.685	410.628	---	---	---	---	17
18	---	---	---	410.628	410.704	410.687	410.680	410.628	---	---	---	---	18
19	---	---	---	---	410.704	410.690E	410.680	410.628	---	---	---	---	19
20	---	---	---	---	410.674	410.692	410.680	410.627	---	---	---	---	20
21	---	---	---	---	410.673	410.691	410.674	410.627	---	---	410.338	---	21
22	---	---	---	---	410.678	410.691	410.674	410.607	---	---	---	---	22
23	---	---	---	---	410.678	410.691	410.674	410.602	---	---	---	---	23
24	---	---	---	---	410.673	410.691	410.644	410.601	---	410.331	---	---	24
25	---	---	---	---	410.672	410.690	410.643	410.581	---	---	---	---	25
26	---	410.524	---	---	410.677	410.690	410.653	410.581	---	---	---	---	26
27	---	---	---	---	410.672	410.695	410.653	410.506	---	---	---	---	27
28	---	---	410.588	---	410.672	410.695	410.653	410.581	---	---	---	---	28
29	---		---	---	410.672	410.694	410.652	410.576	---	---	---	---	29
30	---		---	---	410.671	410.694	410.647	410.576	---	---	---	---	30
31	410.533		---		410.671		410.647	410.576		---		---	31
MEAN	---	---	---	---	410.662	410.686	410.677	410.618	---	---	---	---	MEAN
MAX	---	---	---	---	410.704	410.695	410.698	410.647	---	---	---	---	MAX
MIN	---	---	---	---	410.627	410.670	410.643	410.506	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 410.704 ON MAY 17

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 24 00 N
LONG 099 36 20 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED

REGULATED SINCE 1927

DRAINAGE AREA,
463 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05OA010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.957B	0.043	0.053	0.340	0.060	0	0	---	---	1
2	---	---	0 B	0.977B	0.043	0.057	0.308	0.061	0	0	---	---	2
3	---	---	0 B	0.946B	0.050	0.059	0.371	0.049	0	0	---	---	3
4	---	---	0 B	0.840B	0.048	0.059	0.314	0.039	0	0	---	---	4
5	---	---	0 B	0.810B	0.046	0.060	0.286	0.033	0	0	---	---	5
6	---	---	0 B	0.536B	0.058	0.057	0.303	0.023	0	0	---	---	6
7	---	---	0 B	0.309B	0.051	0.065	0.332	0.017	0	0	---	---	7
8	---	---	0 B	0.235B	0.062	0.260	0.309	0.013	0	0	---	---	8
9	---	---	0 B	0.174	0.047	0.477	0.294	0.008	0	0	---	---	9
10	---	---	0 B	0.155	0.048	0.419	0.287	0.004	0	0	---	---	10
11	---	---	0 B	0.121	0.051	0.419	0.314	0.004	0	0	---	---	11
12	---	---	0.028B	0.109	0.044	0.441	0.323	0.003	0	0	---	---	12
13	---	---	0.093B	0.094	0.031	0.441	0.301	0.003	0	0	---	---	13
14	---	---	0.086B	0.078	0.042	0.400	0.283	0.002	0	0	---	---	14
15	---	---	0.068B	0.070	0.046	0.416	0.268	0.002	0	0	---	---	15
16	---	---	0.057B	0.058	0.053	0.435	0.271	0.001	0	0	---	---	16
17	---	---	0.048B	0.046	0.046	0.455	0.259	0	0	0	---	---	17
18	---	---	0.040B	0.044	0.049	0.442	0.247	0	0	0	---	---	18
19	---	---	0.026B	0.042	0.043	0.468	0.243	0	0	0	---	---	19
20	---	---	0.028B	0.039	0.057	0.459	0.232	0	0	0	---	---	20
21	---	---	0.023B	0.041	0.065	0.516	0.218	0	0	0	---	---	21
22	---	---	0.025B	0.039	0.058	0.927	0.191	0	0	0	---	---	22
23	---	---	0.032B	0.041	0.053	0.726	0.170	0	0	0	---	---	23
24	---	---	0.037B	0.038	0.053	0.632	0.159	0	0	0	---	---	24
25	---	---	0.041B	0.050	0.049	0.592	0.156	0	0	0	---	---	25
26	---	---	0.045B	0.046	0.046	0.519	0.162	0	0	0	---	---	26
27	---	---	0.051B	0.045	0.048	0.466	0.156	0	0	0	---	---	27
28	---	---	0.057B	0.049	0.048	0.435	0.114	0	0	0	---	---	28
29	---	---	0.065B	0.047	0.050	0.397	0.090	0	0	0	---	---	29
30	---		0.100B	0.045	0.056	0.339	0.077	0	0	0	---	---	30
31	---		0.583B		0.055		0.069	0		0		---	31
TOTAL	---	---	1.533	7.081	1.539	11.491	7.447	0.322	0	0	---	---	TOTAL
MEAN	---	---	0.050	0.236	0.050	0.383	0.240	0.010	0	0	---	---	MEAN
MAX	---	---	0.583	0.977	0.065	0.927	0.371	0.061	0	0	---	---	MAX
MIN	---	---	0	0.038	0.031	0.053	0.069	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.120
MAXIMUM DAILY, 0.977B ON APR 02
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 50 N
LONG 099 27 44 W
DRAINAGE AREA, 549 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	643
FEB	---	AUG	27.8
MAR	132	SEP	0
APR	612	OCT	0
MAY	133	NOV	---
JUN	993	DEC	---

TOTAL DISCHARGE, 2 540 dam³

PEMBINA RIVER AT NECHE - STATION NO. 05OC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	0.187B	4.53	1.95	2.83 E	0.246	0.014	0.001E	0.031	0.007B	1
2	0B	0B	0 B	19.8 B	4.28	2.61	2.83 E	0.623	0.003	0.001E	0.031	0.003B	2
3	0B	0B	0 B	25.5 B	4.19	2.92	3.40 E	0.425	0.023	0.001E	0.040	0.003B	3
4	0B	0B	0 B	19.1	4.19	3.79	3.40 E	0.368	0.021	0.001E	0.040	0.003B	4
5	0B	0B	0 B	20.6	4.28	3.85	3.11 E	0.368	0.004	0.001E	0.045	0.003B	5
6	0B	0B	0 B	17.3	4.36	3.09	2.55 E	0.280	0.006E	0.001E	0.042	0.003B	6
7	0B	0B	0 B	13.9	4.19	2.63	3.68 E	0.340	0.005E	0.001E	0.040	0.003B	7
8	0B	0B	0 B	12.9	3.79	2.49	3.40 E	0.340	0.005E	0 E	0.048	0.003B	8
9	0B	0B	0 B	12.2	3.62	2.41	2.80	0.280	0.005E	0 E	0.071	0.003B	9
10	0B	0B	0 B	12.0	3.34	2.52	2.55	0.218	0.005E	0 E	0.065	0.003B	10
11	0B	0B	0 B	9.51	3.23	2.69	2.01	0.184	0.005E	0 E	0.045	0.003B	11
12	0B	0B	0 B	7.62	3.09	2.72	1.73	0.207	0.005E	0 E	0.045	0.003B	12
13	0B	0B	0 B	6.46	3.00	6.43	1.59	0.176	0.005E	0 E	0.034	0.003B	13
14	0B	0B	0 B	5.32	2.89	12.2	1.47	0.136	0.005E	0 E	0.034	0.003B	14
15	0B	0B	0 B	5.32	2.86	11.8	1.33	0.130	0.005E	0 E	0.028	0.003B	15
16	0B	0B	0 B	5.27	2.61	8.47	1.36	0.142	0.005E	0 E	0.028	0.003B	16
17	0B	0B	0 B	5.27	2.69	6.68	1.50	0.099	0.005E	0 E	0.026	0.003B	17
18	0B	0B	0 B	5.66	3.00	5.63	1.27	0.076	0.006E	0.001E	0.031	0.003B	18
19	0B	0B	0 B	5.66	3.54	4.96	1.19	0.088	0.006E	0.001E	0.040	0.003B	19
20	0B	0B	0 B	5.61	3.54	6.40	1.13	0.125	0.006E	0.001E	0.042	0.003B	20
21	0B	0B	0 B	5.32	3.54	11.8	0.991	0.088	0.004E	0.001E	0.048	0.003B	21
22	0B	0B	0 B	5.44	4.08	9.37	0.821	0.076	0.003E	0.001E	0.028	0.003B	22
23	0B	0B	0 B	5.72	4.81	7.25	0.793	0.065	0.003E	0.002E	0.019	0.002B	23
24	0B	0B	0 B	5.44	4.76	6.00	0.700	0.048	0.002E	0.002E	0.018	0.002B	24
25	0B	0B	0.040B	5.44	4.02	5.32	0.651	0.034	0.002E	0.002E	0.014	0.002B	25
26	0B	0B	0.125B	5.44	3.03	4.98E	0.680	0.042	0.001E	0.002E	0.014	0.002B	26
27	0B	0B	0.093B	5.07	2.80	4.64E	0.765	0.045	0.001E	0.002E	0.008	0.002B	27
28	0B	0B	0.091B	5.24	2.58	4.30E	0.700	0.040	0.001E	0.002E	0.006	0.002B	28
29	0B		0.093B	5.24	2.29	3.96E	0.595	0.034	0.001E	0.003E	0.006	0.002B	29
30	0B		0.113B	4.79	2.21	3.40E	0.530	0.048	0.001E	0.003E	0.007B	0.002B	30
31	0B		0.167B		2.01		0.272	0.040		0.009		0.002B	31
TOTAL	0	0	0.722	268.327	107.35	157.26	52.682	5.411	0.163	0.039	0.974	0.088	TOTAL
MEAN	0	0	0.023	8.94	3.46	5.24	1.70	0.175	0.005	0.001	0.033	0.003	MEAN
MAX	0	0	0.167	25.5	4.81	12.2	3.68	0.623	0.023	0.009	0.071	0.007	MAX
MIN	0	0	0	0.187	2.01	1.95	0.272	0.034	0.001	0	0.006	0.002	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.62
MAXIMUM DAILY, 25.5B ON APR 03
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS, 28.3 AT 15:20 CST ON APR 02

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 20 N
LONG 097 33 05 W
DRAINAGE AREA, 8 480 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	4 550
FEB	0	AUG	468
MAR	62.4	SEP	14.1
APR	23 200	OCT	3.37
MAY	9 280	NOV	84.2
JUN	13 600	DEC	7.60

TOTAL DISCHARGE, 51 300 dam³

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05OB023

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.001B	0.001B	0.001B	4.79 B	0.278	0.074	0.349	0.016	0.046	0.005	0.015	0.009B	1
2	0.001B	0.001B	0.001B	11.3 B	0.256	0.203	0.337	0.003	0.042	0.005	0.016	0.005B	2
3	0.001B	0.001B	0.001B	13.9 B	0.250	0.397	0.337	0.003	0.041	0.005	0.015	0.005B	3
4	0.001B	0.001B	0.001B	11.7 B	0.262	0.337	0.316	0.001	0.035	0.005	0.016	0.006B	4
5	0.001B	0.001B	0.001B	7.22 B	0.204	0.344	0.333	0.001	0.031	0.004	0.019	0.008B	5
6	0.002B	0.001B	0.001B	5.08	0.167	0.545	0.317	0.001	0.030	0.004	0.020B	0.007B	6
7	0.002B	0.001B	0.002B	4.26	0.133	0.462	0.340	0.012	0.027	0.003	0.020B	0.008B	7
8	0.002B	0.001B	0.003B	3.57	0.144	0.589	0.309	0.006	0.026	0.002	0.022B	0.009B	8
9	0.002B	0.001B	0.004B	3.14	0.108	0.727	0.232	0.004	0.023	0.002	0.022B	0.008B	9
10	0.002B	0.001B	0.005B	2.79	0.063	0.644	0.202	0.003	0.019	0.001	0.021B	0.006B	10
11	0.002B	0.001B	0.006B	2.41	0.082	0.541	0.191	0.004	0.017	0.001	0.021B	0.006B	11
12	0.001B	0.001B	0.007B	2.05	0.108	0.537	0.162	0.005	0.012	0.001	0.020B	0.006B	12
13	0.001B	0.001B	0.008B	1.74	0.054	0.496	0.151	0.006	0.010	0.002	0.018B	0.005B	13
14	0.001B	0.001B	0.009B	1.41	0.035	0.449	0.138	0.010	0.007	0.002	0.019B	0.006B	14
15	0.001B	0.001B	0.010B	1.24	0.036	0.367	0.149	0.010	0.006	0.002	0.018B	0.005B	15
16	0.001B	0.001B	0.022B	1.10 A	0.138	0.307	0.103	0.016	0.005	0.003	0.020B	0.004B	16
17	0.001B	0.001B	0.009B	0.973E	0.467	0.297	0.101	0.013	0.005	0.002	0.022B	0.004B	17
18	0.001B	0.001B	0.003B	0.852E	0.437	0.328	0.096	0.015	0.011	0.002	0.023B	0.004B	18
19	0.001B	0.001B	0.002B	0.742A	0.331	0.321	0.092	0.014	0.008	0.002	0.021B	0.004B	19
20	0.001B	0.001B	0.001B	0.670	0.264	0.430	0.076	0.012	0.007	0.002	0.019B	0.005B	20
21	0.001B	0.001B	0.001B	0.589	0.214	0.522	0.037	0.009	0.007	0.003	0.025B	0.004B	21
22	0.001B	0.001B	0.001B	0.505	0.241	0.508	0.046	0.007	0.006	0.003	0.023B	0.005B	22
23	0.001B	0.001B	0.007B	0.486	0.223	0.467	0.053	0.010	0.006	0.003	0.017B	0.005B	23
24	0.001B	0.001B	0.001B	0.433	0.190	0.452	0.052	0.020	0.007	0.003	0.014B	0.005B	24
25	0.001B	0.001B	0.007B	0.489	0.144	0.432	0.028	0.030	0.006	0.004	0.012B	0.005B	25
26	0.001B	0.001B	0.044B	0.468	0.107	0.443	0.008	0.042	0.005	0.004	0.011B	0.005B	26
27	0.001B	0.001B	0.140B	0.384	0.110	0.420	0.015	0.054	0.004	0.005	0.010B	0.006B	27
28	0.001B	0.001B	0.119B	0.352	0.129	0.411	0.007	0.058	0.004	0.005	0.008B	0.006B	28
29	0.001B		0.087B	0.308	0.101	0.385	0.005	0.058	0.004	0.006	0.006B	0.006B	29
30	0.001B		0.187B	0.270	0.085	0.358	0.004	0.056	0.004	0.008	0.008B	0.005B	30
31	0.001B		0.983B		0.066		0.006	0.054		0.012		0.006B	31
TOTAL	0.037	0.028	1.674	85.221	5.427	12.791	4.597	0.561	0.461	0.111	0.521	0.178	TOTAL
MEAN	0.001	0.001	0.054	2.84	0.175	0.426	0.148	0.018	0.015	0.004	0.017	0.006	MEAN
MAX	0.002	0.001	0.983	13.9	0.467	0.727	0.349	0.058	0.046	0.012	0.025	0.009	MAX
MIN	0.001	0.001	0.001	0.270	0.035	0.074	0.004	0.001	0.004	0.001	0.006	0.004	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.306
MAXIMUM DAILY, 13.9B ON APR 03
MINIMUM DAILY, 0.001B ON JAN 01
MAXIMUM INSTANTANEOUS,
14.7B AT 04:17 CST ON APR 03

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 13 10 N
LONG 099 01 40 W
DRAINAGE AREA, 4 470 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1940

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	3.20	JUL	397
FEB	2.42	AUG	48.5
MAR	145	SEP	39.8
APR	7 360	OCT	9.59
MAY	469	NOV	45.0
JUN	1 110	DEC	15.4

TOTAL DISCHARGE, 9 640 dam³

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05OA008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.172B	0.006	0.012	0.216	0.023	0	0	---	---	1
2	---	---	0 B	0.425B	0.005	0.015	0.224	0.023	0	0	---	---	2
3	---	---	0 B	0.647B	0.007	0.018	0.233	0.021	0	0	---	---	3
4	---	---	0 B	0.539B	0.008	0.015	0.240	0.016	0	0	---	---	4
5	---	---	0 B	0.525B	0.007	0.019	0.236	0.006	0	0	---	---	5
6	---	---	0 B	0.328B	0.007	0.015	0.240	0	0	0	---	---	6
7	---	---	0 B	0.238	0.005	0.016	0.543	0	0	0	---	---	7
8	---	---	0 B	0.191	0.004	0.006	0.474	0	0	0	---	---	8
9	---	---	0.017B	0.136	0.004	0.011	0.409	0	0	0	---	---	9
10	---	---	0.032B	0.109	0.003	0.031	0.391	0	0	0	---	---	10
11	---	---	0.013B	0.071	0.003	0.025	0.363	0	0	0	---	---	11
12	---	---	0.049B	0.073	0.003	0.020	0.341	0	0	0	---	---	12
13	---	---	0.146B	0.039	0.003	0.022	0.320	0	0	0	---	---	13
14	---	---	0.133B	0.023	0.004	0.017	0.292	0	0	0	---	---	14
15	---	---	0.140B	0.032	0.007	0.017	0.255	0	0	0	---	---	15
16	---	---	0.263B	0.022	0.014	0.012	0.223	0	0	0	---	---	16
17	---	---	0.210B	0.016	0.015	0.014	0.212	0	0	0	---	---	17
18	---	---	0.055B	0.022	0.020	0.019	0.194	0	0	0	---	---	18
19	---	---	0.038B	0.023	0.027	0.049	0.190	0	0	0	---	---	19
20	---	---	0.013B	0.026	0.018	1.03	0.177	0	0	0	---	---	20
21	---	---	0.005B	0.030	0.010	2.98	0.166	0	0	0	---	---	21
22	---	---	0.005B	0.029	0.009	1.44 A	0.141	0	0	0	---	---	22
23	---	---	0.094B	0.025	0.015	1.10 E	0.131	0.001	0	0	---	---	23
24	---	---	0.367B	0.023	0.023	0.663E	0.114	0.001	0	0	---	---	24
25	---	---	0.130B	0.024	0.017	0.313A	0.099	0.002	0	0	---	---	25
26	---	---	0.096B	0.018	0.015	0.227	0.093	0.001	0	0	---	---	26
27	---	---	0.121B	0.017	0.016	0.202	0.086	0.003	0	0	---	---	27
28	---	---	0.080B	0.015	0.013	0.185	0.074	0.002	0	0	---	---	28
29	---	---	0.010B	0.013	0.017	0.196	0.048	0	0	0	---	---	29
30	---		0.072B	0.010	0.020	0.207	0.028	0	0	0	---	---	30
31	---		0.106B		0.016		0.026	0		0	---	---	31
TOTAL	---	---	2.231	3.860	0.341	8.896	6.779	0.099	0	0	---	---	TOTAL
MEAN	---	---	0.072	0.129	0.011	0.297	0.219	0.003	0	0	---	---	MEAN
MAX	---	---	0.367	0.647	0.027	2.98	0.543	0.023	0	0	---	---	MAX
MIN	---	---	0	0.010	0.003	0.006	0.026	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.091
MAXIMUM DAILY, 2.98 ON JUN 21
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.85 AT 10:26 CST ON JUN 21

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 41 N
LONG 099 44 36 W
DRAINAGE AREA, 335 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	586
FEB	---	AUG	8.55
MAR	193	SEP	0
APR	334	OCT	0
MAY	29.5	NOV	---
JUN	769	DEC	---

TOTAL DISCHARGE, 1 920 dam³

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0	0	0	13.4 B	3.11	1.43	1.35	0.102	0.002	0.004	0.003	0.001B	1
2	0	0	0	12.0	2.99	1.50	2.18	0.100	0.001	0.003	0.002	0.001B	2
3	0	0	0	17.6	3.13	1.56	5.26	0.077	0.002	0.003	0.001	0 B	3
4	0	0	0	18.3	3.07	1.51	1.84	0.066	0.006	0.001	0.001	0 B	4
5	0	0	0	13.0	2.97	1.50	1.31	0.057	0.002	0.001	0.002	0 B	5
6	0	0	0	9.58	2.89	1.57	1.11	0.053	0.003	0.002	0.001	0 B	6
7	0	0	0	9.24	2.77	1.59	1.09	0.045	0.003	0.002	0.001	0 B	7
8	0	0	0	8.91	2.62	1.90	0.938	0.038	0.002	0.003	0.002B	0 B	8
9	0	0	0.004B	7.17	2.46	1.97	0.842	0.029	0.001	0.003	0.003B	0 B	9
10	0	0	0.002B	5.14	2.37	2.81	0.767	0.024	0.001	0.002	0.001B	0 B	10
11	0	0	0.003B	4.51	2.30	3.51	0.721	0.028	0.001	0.002	0.002B	0 B	11
12	0	0	0.115B	3.83	2.19	5.58	0.708	0.035	0.001	0.001	0.002B	0 B	12
13	0	0	0.091B	4.07	2.03	5.58	0.809	0.029	0.001	0.003	0.002B	0 B	13
14	0	0	0.130B	4.11	1.95	3.79	0.835	0.025	0.001	0.002	0.002B	0 B	14
15	0	0	0.049B	4.27	1.90	3.48A	0.783	0.018	0.001	0.002	0.001B	0 B	15
16	0	0	0.101B	5.01	2.21	3.19A	0.715	0.016	0.001	0.001	0.001B	0 B	16
17	0	0	0.024B	4.56	2.42	3.07E	0.669	0.013	0.003	0.001	0.001B	0 B	17
18	0	0	0.015B	4.41	2.22	2.96E	0.605	0.019	0.008	0.001	0.001B	0 B	18
19	0	0	0.050B	4.04	2.66	2.85E	0.547	0.017	0.004	0.001	0.001B	0 B	19
20	0	0	0.025B	4.07	3.33A	2.74E	0.488	0.010	0.005	0.002	0.001B	0 B	20
21	0	0	0.010B	4.16	3.10E	2.64E	0.419	0.008	0.005	0.002	0.001B	0 B	21
22	0	0	0.002B	3.89	2.90E	2.53E	0.375	0.005	0.003	0.002	0.001B	0 B	22
23	0	0	0.019B	4.14	2.70E	2.42E	0.297	0.003	0.003	0.002	0.001B	0 B	23
24	0	0	0.002B	4.10	2.52E	2.31E	0.249	0.002	0.003	0.002	0.001B	0 B	24
25	0	0	0.002B	4.04	2.33E	2.21A	0.209	0.007	0.002	0.001	0.001B	0 B	25
26	0	0	0.005B	4.02	2.15E	2.11	0.182	0.007	0.003	0.002	0.001B	0 B	26
27	0	0	0.020B	3.69	1.97E	1.96	0.163	0.011	0.003	0.002	0.001B	0 B	27
28	0	0	0.160B	3.66	1.80E	1.79	0.134	0.008	0.004	0.003	0.001B	0 B	28
29	0		0.220B	3.47	1.61E	1.62	0.115	0.005	0.004	0.002	0.001B	0 B	29
30	0		1.78 B	3.30	1.57A	1.48	0.099	0.004	0.004	0.001	0.001B	0 B	30
31	0		11.5 B		1.48		0.090	0.002		0.003		0 B	31
TOTAL	0	0	14.329	195.69	75.72	74.75	25.899	0.863	0.083	0.062	0.041	0.002	TOTAL
MEAN	0	0	0.462	6.52	2.44	2.49	0.836	0.028	0.003	0.002	0.001	0	MEAN
MAX	0	0	11.5	18.3	3.33	5.58	5.26	0.102	0.008	0.004	0.003	0.001	MAX
MIN	0	0	0	3.30	1.48	1.43	0.090	0.002	0.001	0.001	0.001	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.06
MAXIMUM DAILY, 18.3 ON APR 04
MINIMUM DAILY, 0 ON JAN 01
MAXIMUM INSTANTANEOUS,
22.5 AT 18:22 CST ON APR 03

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 53 N
LONG 098 16 40 W

DRAINAGE AREA, 7 510 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	2 240
FEB	0	AUG	74.6
MAR	1 240	SEP	7.17
APR	16 900	OCT	5.36
MAY	6 540	NOV	3.54
JUN	6 460	DEC	0.173

TOTAL DISCHARGE, 33 500 dam³

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	35.6B	32.3B	31.0B	32.3B	88.7	213	231E	137 E	81.1	48.3	32.9	27.3	1
2	35.3B	32.1B	30.5B	32.5B	87.3	217	227E	135 E	79.7	47.5	32.6	26.4	2
3	35.1B	32.9B	30.3B	32.6B	86.1	222	223E	132 E	79.9	46.7	32.2	26.0	3
4	34.9B	33.9B	30.3B	32.5B	85.2	226	219E	130 E	78.4	46.2	31.8	25.9	4
5	34.7B	34.0B	29.9B	32.4B	84.5	231	215E	127 E	76.3	45.5	31.3	26.0	5
6	34.8B	33.7B	29.7B	32.3B	84.3	236	212E	124 E	74.8	44.5	30.8	26.1	6
7	34.9B	33.6B	29.5B	32.2B	85.1	240	212E	122 E	73.2	43.9	30.5	26.1	7
8	35.0B	33.6B	29.4B	32.1B	89.1	243	211E	120 A	71.7	43.3	30.1	26.0	8
9	35.0B	33.6B	29.4B	31.9B	93.6	246	210E	118	70.2	43.0	29.8	26.0	9
10	35.1B	33.5B	29.5B	31.5B	96.2	249	208E	116	68.9	42.5	29.5	25.7	10
11	35.1B	33.3B	29.6B	31.3B	98.4	251	204E	113	67.6	41.9	28.8	25.6	11
12	35.1B	33.0B	29.7B	31.3B	101	254	200E	112	65.7	41.4	28.2	25.5	12
13	34.9B	32.3B	30.1B	31.3B	103	257	196E	110	64.5	40.4	28.1	25.5	13
14	34.8B	31.6B	30.4B	31.6B	106	257E	193E	108	63.3	39.9	28.1	25.5	14
15	34.8B	31.0B	31.8B	31.9B	108	256E	189E	106	61.9	39.2	27.8	25.6	15
16	34.6B	31.7B	33.6B	32.5B	112	256E	186E	104	60.5	38.6	27.6	25.7	16
17	34.6B	31.3B	34.1B	33.1B	125	255E	184E	103	59.5	38.0	27.6	25.7	17
18	34.3B	31.3B	34.2B	35.2B	128	254E	181E	101	58.4	37.5	27.3	25.6	18
19	34.4B	31.4B	34.0B	42.9B	134	252E	177E	99.5	57.2	37.1	26.9	25.3	19
20	34.1B	31.6B	34.1B	50.9	139	248E	173E	98.3	56.0	36.8	26.9	25.0	20
21	33.5B	31.8B	34.1B	56.3	146	246E	170E	96.6	56.7	36.7	26.8	24.8	21
22	33.4B	31.8B	33.8B	62.5	153	245E	166E	94.8	56.5	36.3	27.4	24.8B	22
23	33.5B	31.8B	32.7B	69.9A	160	244E	162E	94.6	55.1	36.1	28.0	24.9B	23
24	33.3B	31.4B	32.0B	82.3	165	243E	158E	92.3	54.5	35.9	27.7	25.0B	24
25	32.9B	31.2B	32.5B	88.8	171	242E	155E	90.7	53.8	35.8	26.9	25.2B	25
26	33.2B	31.3B	32.3B	96.2	178	240E	152E	88.9	52.8	35.7	26.3	25.0B	26
27	33.2B	31.4B	32.1B	96.9	184	238E	150E	87.2	51.5	35.3	26.5	24.7B	27
28	33.2B	31.3B	31.8B	94.1	189	236E	148E	86.0	50.4	34.5	26.8	24.8B	28
29	33.0B		31.7B	92.0	196	234E	146E	85.0	49.5	34.0	26.9	24.5B	29
30	32.9B		31.6B	90.3	202	232E	143E	83.9	48.8	33.6	27.1	23.9B	30
31	32.9B		31.9B		208		140E	82.7		33.3		23.8B	31
TOTAL	1 062.3	904.5	978.4	1 503.6	3 983.5	7 263	5 741	3 298.5	1 898.4	1 229.6	859.2	787.9	TOTAL
MEAN	34.3	32.3	31.6	50.1	129	242	185	106	63.3	39.7	28.6	25.4	MEAN
MAX	35.6	34.0	34.2	96.9	208	257	231	137	81.1	48.3	32.9	27.3	MAX
MIN	32.9	31.2	29.4	31.3	84.3	213	140	82.7	48.8	33.3	26.3	23.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 80.8
MAXIMUM DAILY, 257 ON JUN 13
MINIMUM DAILY, 23.8B ON DEC 31

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 49 N
LONG 096 23 37 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	91 800	JUL	496 000
FEB	78 100	AUG	285 000
MAR	84 500	SEP	164 000
APR	130 000	OCT	106 000
MAY	344 000	NOV	74 200
JUN	628 000	DEC	68 100

TOTAL DISCHARGE, 2 550 000 dam³

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.30 B	0.051	0.002A	0	0	0	0	---	---	1
2	---	---	0 B	2.02 B	0.052	0.050E	0	0	0	0	---	---	2
3	---	---	0 B	1.64	0.104	0.027E	0.004	0	0	0	---	---	3
4	---	---	0 B	1.35	0.080	0.014E	0.001	0	0	0	---	---	4
5	---	---	0 B	0.612	0.054	0.014E	0.001	0	0	0	---	---	5
6	---	---	0 B	0.407	0.042	0.014E	0.005	0	0	0	---	---	6
7	---	---	0 B	0.464	0.031	0.015E	0.005	0	0	0	---	---	7
8	---	---	0 B	0.473	0.025	0.021E	0.005	0	0	0	---	---	8
9	---	---	0 B	0.411	0.019	0.034E	0.001	0	0	0	---	---	9
10	---	---	0 B	0.377	0.015	0.028E	0	0	0	0	---	---	10
11	---	---	0 B	0.307	0.013	0.015E	0	0	0	0	---	---	11
12	---	---	0 B	0.318	0.011	0.010E	0	0	0	0	---	---	12
13	---	---	0 B	0.309	0.011	0.005E	0.001	0	0	0	---	---	13
14	---	---	0 B	0.290	0.010	0.002E	0	0	0	0	---	---	14
15	---	---	0 B	0.257	0.015	0	0	0	0	0	---	---	15
16	---	---	0 B	0.234	0.082	0	0	0	0	0	---	---	16
17	---	---	0 B	0.216	0.132	0	0	0	0	0	---	---	17
18	---	---	0 B	0.221	0.063	0.067A	0	0	0	0	---	---	18
19	---	---	0 B	0.229	0.032	0.200	0	0	0	0	---	---	19
20	---	---	0 B	0.207	0.020	0.077	0	0.196	0	0	---	---	20
21	---	---	0 B	0.178	0.018	0.020	0	0.188	0	0	---	---	21
22	---	---	0 B	0.171	0.014	0.009	0	0	0	0	---	---	22
23	---	---	0 B	0.162	0.014	0.002	0	0	0	0	---	---	23
24	---	---	0 B	0.133	0.016	0	0	0	0	0	---	---	24
25	---	---	0 B	0.129	0.012	0	0	0	0	0	---	---	25
26	---	---	0 B	0.095	0.006	0	0	0	0	0	---	---	26
27	---	---	0 B	0.056	0.006A	0	0	0	0	0	---	---	27
28	---	---	0 B	0.052	0.006A	0	0	0	0	0	---	---	28
29	---	---	0 B	0.028	0.006	0	0	0	0	0	---	---	29
30	---		0 B	0.041	0.006	0	0	0	0	0	---	---	30
31	---		0.412B		0.009		0	0		0		---	31
TOTAL	---	---	0.412	13.691	0.975	0.626	0.023	0.384	0	0	---	---	TOTAL
MEAN	---	---	0.013	0.456	0.032	0.021	0.001	0.012	0	0	---	---	MEAN
MAX	---	---	0.412	2.30	0.132	0.200	0.005	0.196	0	0	---	---	MAX
MIN	---	---	0	0.028	0.006	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.066
MAXIMUM DAILY, 2.30B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.25B AT 21:03 CST ON APR 02

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 34 N
LONG 098 57 06 W
DRAINAGE AREA, 154 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1.99
FEB	---	AUG	33.2
MAR	35.6	SEP	0
APR	1 180	OCT	0
MAY	84.2	NOV	---
JUN	54.1	DEC	---

TOTAL DISCHARGE, 1 390 dam³

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.150B	0.130B	0.145B	0.835B	1.01	0.328	0.347	0.104	0.083	0.103	0.173	0.140B	1
2	0.150B	0.128B	0.149B	1.38 B	0.830	0.731	0.339	0.106	0.080	0.110	0.174	0.140B	2
3	0.150B	0.126B	0.154B	1.04 B	0.761	1.72	0.813	0.110	0.077	0.107	0.170	0.139B	3
4	0.150B	0.124B	0.159B	0.777B	1.04	1.39	0.617	0.105	0.078	0.106	0.170	0.138B	4
5	0.150B	0.123B	0.164B	0.737B	0.916	0.908	0.429	0.094	0.073	0.114	0.169	0.137B	5
6	0.150B	0.123B	0.168B	0.677B	0.775	0.756	0.346	0.088	0.079	0.118	0.171B	0.136B	6
7	0.150B	0.123B	0.173B	0.653B	0.746	0.644	0.459	0.088	0.109	0.124	0.162B	0.135B	7
8	0.149B	0.123B	0.178B	0.632B	0.742	0.786	0.789	0.092	0.101	0.125	0.167B	0.134B	8
9	0.148B	0.123B	0.183B	0.611B	0.838	1.12	0.572	0.079	0.091	0.124	0.167B	0.133B	9
10	0.148B	0.123B	0.188B	0.662B	0.698	0.746	0.351	0.086	0.084	0.128	0.166B	0.132B	10
11	0.148B	0.123B	0.273B	0.655B	0.654	0.707	0.274	0.079	0.085	0.131	0.166B	0.132B	11
12	0.148B	0.123B	0.320B	0.655B	0.647	1.44	0.212	0.085	0.083	0.127	0.166B	0.132B	12
13	0.150B	0.123B	0.621B	0.655B	0.641	1.25	0.178	0.088	0.090	0.135	0.168B	0.128B	13
14	0.151B	0.123B	1.49 B	0.655B	0.635	1.00	0.159	0.086	0.083	0.138	0.170B	0.125B	14
15	0.152B	0.123B	1.75 B	0.655B	0.635	0.636	0.146	0.081	0.084	0.140	0.170B	0.122B	15
16	0.152B	0.123B	2.55 B	0.655B	0.648	0.506	0.144	0.083	0.087	0.142	0.169B	0.115B	16
17	0.152B	0.123B	1.64 B	0.650B	1.09	0.540	0.133	0.100	0.083	0.143	0.168B	0.108B	17
18	0.152B	0.123B	1.28 B	0.688B	1.09	0.645	0.133	0.107	0.098	0.142	0.169B	0.104B	18
19	0.152B	0.123B	0.859B	0.815B	0.794	0.581	0.130	0.086	0.116	0.146	0.166B	0.099B	19
20	0.152B	0.123B	0.627B	0.836	0.584	1.22	0.127	0.076	0.111	0.147	0.173B	0.095B	20
21	0.150B	0.124B	0.649B	0.988	0.481	1.61	0.125	0.065	0.106	0.148	0.180B	0.093B	21
22	0.148B	0.125B	0.619B	1.45	0.466	1.56	0.123	0.068	0.107	0.151	0.156B	0.092B	22
23	0.146B	0.126B	0.465B	1.55	0.455	0.948	0.127	0.084	0.103	0.154	0.152B	0.091B	23
24	0.144B	0.128B	0.355B	1.72	0.428	0.672	0.127	0.094	0.102	0.157	0.133B	0.090B	24
25	0.142B	0.130B	0.289B	1.74	0.411	0.514	0.118	0.098	0.098	0.158	0.142B	0.090B	25
26	0.141B	0.133B	0.236B	1.69	0.390	0.487	0.109	0.092	0.093	0.156	0.147B	0.090B	26
27	0.140B	0.137B	0.228B	1.43	0.377	0.406	0.110	0.088	0.097	0.164	0.150B	0.090B	27
28	0.138B	0.141B	0.276B	1.31	0.366	0.373	0.134	0.092	0.097	0.177	0.149B	0.090B	28
29	0.136B		0.320B	1.57	0.356	0.360	0.119	0.093	0.103	0.175	0.145B	0.090B	29
30	0.134B		0.513B	1.31	0.344	0.355	0.105	0.094	0.104	0.172	0.141B	0.090B	30
31	0.132B		0.771B		0.332		0.095	0.087		0.171		0.090B	31
TOTAL	4.555	3.520	17.752	29.681	20.182	24.939	7.990	2.768	2.785	4.330	4.869	3.520	TOTAL
MEAN	0.147	0.126	0.574	0.989	0.651	0.831	0.258	0.089	0.093	0.140	0.162	0.114	MEAN
MAX	0.152	0.141	2.55	1.74	1.09	1.72	0.813	0.110	0.116	0.177	0.180	0.140	MAX
MIN	0.132	0.123	0.145	0.611	0.332	0.328	0.095	0.065	0.073	0.103	0.133	0.090	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.348
MAXIMUM DAILY, 2.55B ON MAR 16
MINIMUM DAILY, 0.065 ON AUG 21
MAXIMUM INSTANTANEOUS,
2.88 AT 10.01 CST ON MAR 16

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 25 N
LONG 095 56 40 W
DRAINAGE AREA, 158 km²
B - ICE CONDITIONS
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	394	JUL	690
FEB	304	AUG	239
MAR	1 540	SEP	241
APR	2 560	OCT	374
MAY	1 740	NOV	421
JUN	2 150	DEC	304

TOTAL DISCHARGE, 11 000 dam³

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.077B	0.090B	0.058B	1.04 B	0.275	0.136	0.062	0.051	0.039	0.051	0.083	0.078	1
2	0.079B	0.092B	0.057B	1.13 B	0.248	0.159	0.056	0.055	0.039	0.048	0.051	0.071	2
3	0.079B	0.092B	0.057B	1.13 B	0.190	0.171	0.119	0.062	0.046	0.057	0.066	0.070	3
4	0.079B	0.094B	0.053B	1.06 B	0.159	0.186	0.154	0.064	0.041	0.061	0.070	0.073	4
5	0.077B	0.092B	0.054B	0.975B	0.175		0.612	0.061	0.045	0.048	0.065	0.077	5
6	0.080B	0.091B	0.055B	0.957B	0.190	0.086	0.381	0.058	0.041	0.053	0.022E	0.077	6
7	0.080B	0.089B	0.055B	0.786B	0.148	0.077	0.325	0.054	0.044	0.057	0.020E	0.078	7
8	0.083B	0.091B	0.055B	0.586B	0.145	0.121	0.259	0.050	0.041	0.062	0.016E	0.079	8
9	0.083B	0.088B	0.101B	0.429B	0.145	0.238	0.178	0.046	0.043	0.067	0.040A	0.079	9
10	0.088B	0.086B	0.249B	0.383B	0.130	0.397	0.139	0.040	0.042	0.067	0.107	0.078	10
11	0.086B	0.085B	0.444B	0.312B	0.105	0.373	0.114	0.047	0.043	0.067	0.097	0.083	11
12	0.087B	0.084B	0.840B	0.216	0.088	0.264	0.093	0.067	0.042	0.067	0.090	0.087	12
13	0.092B	0.081B	1.15 B	0.244	0.082	0.229	0.082	0.068	0.045	0.074	0.093	0.087	13
14	0.085B	0.081B	1.57 B	0.245	0.085	0.206	0.122	0.065	0.043	0.066	0.106	0.087	14
15	0.080B	0.084B	2.11 B	0.275	0.090	0.230	0.119	0.061	0.045	0.059	0.103	0.087	15
16	0.078B	0.078B	1.68 B	0.272	0.208	0.119	0.082	0.057	0.042	0.057	0.097	0.087	16
17	0.081B	0.070B	1.39 B	0.234	0.542	0.075	0.076	0.055	0.045	0.116	0.094	0.083	17
18	0.085B	0.067B	1.03 B	0.247	0.764	0.070	0.081	0.052	0.064	0.146	0.093	0.084	18
19	0.085B	0.067B	0.771B	0.294	0.778	0.077	0.080	0.063	0.051	0.145	0.090	0.085	19
20	0.084B	0.068B	0.567B	0.322	0.637	0.136	0.076	0.087	0.053	0.111	0.090	0.085	20
21	0.086B	0.068B	0.408B	0.320	0.513	0.180	0.070	0.091	0.056	0.072	0.086	0.085	21
22	0.085B	0.065B	0.361B	0.296	0.467	0.171	0.067	0.092	0.051	0.089	0.102	0.085	22
23	0.088B	0.062B	0.343B	0.200	0.479	0.112	0.063	0.090	0.044	0.076	0.095	0.086	23
24	0.090B	0.055B	0.337B	0.147	0.596	0.101	0.058	0.084	0.049	0.019E	0.091	0.084	24
25	0.092B	0.057B	0.334B	0.217	0.650	0.082	0.054	0.076	0.047	0.017E	0.087	0.084	25
26	0.096B	0.057B	0.330B	0.361	0.426	0.075	0.051	0.069	0.043	0.014E	0.085	0.083	26
27	0.091B	0.055B	0.315B	0.302	0.244	0.074	0.056	0.062	0.046	0.014E	0.085	0.084	27
28	0.091B	0.055B	0.325B	0.233	0.136	0.075	0.059	0.056	0.055	0.013E	0.083	0.086	28
29	0.092B		0.331B	0.324	0.117	0.067	0.056	0.047	0.082	0.013E	0.082	0.087	29
30	0.091B		0.577B	0.317	0.121	0.055	0.053	0.046	0.087	0.016A	0.082	0.087	30
31	0.091B		0.713B		0.113		0.052	0.048		0.059		0.088	31
TOTAL	2.641	2.144	16.820	13.854	9.046	4.345	3.849	1.922	1.454	1.881	2.371	2.554	TOTAL
MEAN	0.085	0.077	0.543	0.462	0.292	0.145	0.124	0.062	0.049	0.061	0.079	0.082	MEAN
MAX	0.096	0.094	2.11	1.13	0.778	0.397	0.612	0.092	0.087	0.146	0.107	0.088	MAX
MIN	0.077	0.055	0.053	0.147	0.082	0.055	0.051	0.040	0.039	0.013	0.016	0.070	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.172
MAXIMUM DAILY, 2.11B ON MAR 15
MINIMUM DAILY, 0.013E ON OCT 28
MAXIMUM INSTANTANEOUS
2.30B AT 15:00 CST ON MAR 15

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 00 N
LONG 099 12 30 W
DRAINAGE AREA, 233 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	228	JUL	333
FEB	185	AUG	166
MAR	1 450	SEP	126
APR	1 200	OCT	163
MAY	782	NOV	205
JUN	375	DEC	221

TOTAL DISCHARGE, 5 430 dam³

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.223B	3.82 B	1.25	0.707	---	---	---	---	---	---	1
2	---	---	0.214B	5.03 B	1.26	0.711	---	---	---	---	---	---	2
3	---	---	0.205B	4.80 B	1.41	0.772	---	---	---	---	---	---	3
4	---	---	0.200B	4.22 B	1.41	0.845	---	---	---	---	---	---	4
5	---	---	0.204B	3.76 B	1.30	0.802	---	---	---	---	---	---	5
6	---	---	0.215B	3.42 B	1.18	0.767	---	---	---	---	---	---	6
7	---	---	0.223B	2.78 B	1.07	0.729	---	---	---	---	---	---	7
8	---	---	0.234B	2.26 B	0.97b	0.832	---	---	---	---	---	---	8
9	---	---	0.277B	1.85 B	0.967	1.29	---	---	---	---	---	---	9
10	---	---	0.323B	1.53 B	0.907	1.63	---	---	---	---	---	---	10
11	---	---	0.336B	1.40 B	0.864	1.53	---	---	---	---	---	---	11
12	---	---	0.394B	1.12 B	0.876	1.44	---	---	---	---	---	---	12
13	---	---	1.23 B	0.975B	0.859	1.30	---	---	---	---	---	---	13
14	---	---	2.85 B	0.977B	0.773	1.04	---	---	---	---	---	---	14
15	---	---	3.69 B	0.936B	0.693	0.875	---	---	---	---	---	---	15
16	---	---	3.68 B	0.669B	0.966	0.753	---	---	---	---	---	---	16
17	---	---	3.78 B	0.566B	2.43	0.681	---	---	---	---	---	---	17
18	---	---	3.67 B	0.930B	4.28	0.685	---	---	---	---	---	---	18
19	---	---	3.55 B	1.46 B	5.21	0.947	---	---	---	---	---	---	19
20	---	---	3.19 B	1.84 B	4.12	1.07	---	---	---	---	---	---	20
21	---	---	2.87 B	2.35 B	2.82	1.13	---	---	---	---	---	---	21
22	---	---	2.50 B	2.48 B	2.03	1.04	---	---	---	---	---	---	22
23	---	---	2.12 B	2.13	1.75	1.12	---	---	---	---	---	---	23
24	---	---	1.80 B	1.98	1.57	0.984	---	---	---	---	---	---	24
25	---	---	1.43 B	1.84	1.38	0.839	---	---	---	---	---	---	25
26	---	---	1.03 B	1.84	1.45	0.689	---	---	---	---	---	---	26
27	---	---	0.755B	1.74	1.46	0.604	---	---	---	---	---	---	27
28	---	---	0.680B	1.60	1.34	0.552	---	---	---	---	---	---	28
29	---	---	0.607B	1.32	1.08	0.548	---	---	---	---	---	---	29
30	---		1.03 B	1.37	0.909	0.547	---	---	---	---	---	---	30
31	---		2.14 B		0.778		---	---	---	---	---	---	31
TOTAL	---	---	45.650	62.993	49.368	27.459	---	---	---	---	---	---	TOTAL
MEAN	---	---	1.47	2.10	1.59	0.915	---	---	---	---	---	---	MEAN
MAX	---	---	3.78	5.03	5.21	1.63	---	---	---	---	---	---	MAX
MIN	---	---	0.200	0.566	0.693	0.547	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.52
MAXIMUM DAILY, 5.21 ON MAY 19
MINIMUM DAILY, 0.200B ON MAR 04
MAXIMUM INSTANTANEOUS
5.40B AT 14:48 CST ON APR 02

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 03 40 N
LONG 098 56 49 W
DRAINAGE AREA, 635 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	3 940	SEP	---
APR	5 440	OCT	---
MAY	4 270	NOV	---
JUN	2 370	DEC	---

TOTAL DISCHARGE, 16 000 dam³

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	0.440B	0.512	0.067	0.696	0.013	0	0	0.424	0.008B	1
2	0B	0B	0 B	1.99 B	0.458	0.085	0.542	0.011	0	0	0.423B	0.005B	2
3	0B	0B	0 B	1.62 B	0.420	0.073	0.548	0.008	0	0	0.429B	0.003B	3
4	0B	0B	0 B	1.29 B	0.388	0.049	4.64	0.004	0	0	0.352B	0.003B	4
5	0B	0B	0 B	1.63 B	0.363	0.044	1.86	0.003	0	0	0.344B	0.003B	5
6	0B	0B	0 B	4.59 B	0.338	0.029	0.203	0.002	0	0	0.287B	0.003B	6
7	0B	0B	0 B	5.54 B	0.304	0.015	0.098	0.001	0	0	0.157B	0.003B	7
8	0B	0B	0 B	5.45 B	0.250	0.012	0.095	0.001	0	0	0.108B	0.003B	8
9	0B	0B	0.005B	3.40 B	0.209	0.007	0.127	0	0	0	0.083B	0.002B	9
10	0B	0B	0.010B	2.77 B	0.187	0.004	0.178	0	0	0	0.072B	0.002B	10
11	0B	0B	0.001B	1.69 B	0.174	0.004	0.264	0.001	0	0	0.062B	0.003B	11
12	0B	0B	0.004B	1.91 B	0.155	0.003	0.300	0	0	0	0.054B	0.004B	12
13	0B	0B	0.004B	1.10 B	0.161	0.002	0.247	0	0	0	0.045	0.002B	13
14	0B	0B	0.009B	1.02 B	0.153	0	0.202	0	0	0	0.041	0.002B	14
15	0B	0B	0.003B	1.03 B	0.120	0	0.154	0	0	0	0.036	0.001B	15
16	0B	0B	0.004B	1.06	0.128	0	0.130	0	0	0	0.031	0 B	16
17	0B	0B	0.004B	1.16	0.086	0.037	0.160	0	0	0	0.026	0 B	17
18	0B	0B	0.002B	1.22	0.061	0.088	0.169	0.003	0	0	0.024	0 B	18
19	0B	0B	0.382B	1.13	0.068	0.083	0.155	0.021	0	0	0.021	0 B	19
20	0B	0B	0.622B	0.876	0.073	0.065	0.115	0.010	0	0	0.016	0 B	20
21	0B	0B	0.614B	0.635	0.098	0.027	0.088	0.003	0	0	0.017B	0 B	21
22	0B	0B	0.537B	0.505	0.086	0.545	0.067	0	0	0	0.022B	0 B	22
23	0B	0B	0.411B	0.453	0.107	1.09	0.044	0	0	0	0.014B	0 B	23
24	0B	0B	0.385B	0.471	0.164	1.05	0.030	0	0	0	0.020B	0 B	24
25	0B	0B	0.364B	0.543	0.162	1.01	0.028	0	0	0	0.022B	0 B	25
26	0B	0B	0.352B	0.605	0.154	0.909	0.031	0	0	0	0.015B	0 B	26
27	0B	0B	0.265B	0.640	0.139	0.848	0.059	0	0	0	0.014B	0 B	27
28	0B	0B	0.237B	0.638	0.116	0.839	0.058	0	0	0	0.008B	0 B	28
29	0B		0.202B	0.584	0.096	1.20	0.049	0	0	0	0.005B	0 B	29
30	0B		0.172B	0.563	0.078	0.877	0.039	0	0	0.041	0.006B	0 B	30
31	0B		0.162B		0.064		0.026	0		0.385		0 B	31
TOTAL	0	0	4.770	46.553	5.872	9.062	11.402	0.081	0	0.426	3.178	0.047	TOTAL
MEAN	0	0	0.154	1.55	0.189	0.302	0.368	0.003	0	0.014	0.106	0.002	MEAN
MAX	0	0	0.622	5.54	0.512	1.20	4.64	0.021	0	0.385	0.429	0.008	MAX
MIN	0	0	0	0.440	0.061	0	0.026	0	0	0	0.005	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.223
MAXIMUM DAILY, 5.54B ON APR 07
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS,
6.72 AT 14:57 CST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 40 N
LONG 100 56 30 W
DRAINAGE AREA, 4 200 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	985
FEB	0	AUG	7.00
MAR	412	SEP	0
APR	4 020	OCT	36.8
MAY	507	NOV	275
JUN	783	DEC	4.06

TOTAL DISCHARGE, 7 030 dam³

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	0.818B	0.358	0.025	0.185	0.005	0	0	0.572	0.004B	1
2	0B	0B	0 B	0.576B	0.361	0.027	0.282	0.004	0	0	0.344	0.004B	2
3	0B	0B	0 B	2.59 B	0.319	0.022	0.216	0.005	0	0	0.227	0.004B	3
4	0B	0B	0 B	5.56 B	0.235	0.018	0.148	0.003	0	0	0.161	0.004B	4
5	0B	0B	0 B	6.07 B	0.173	0.016	0.126	0.002	0	0	0.117B	0.004B	5
6	0B	0B	0 B	5.75 B	0.127	0.012	0.135	0.003	0	0	0.087B	0.004B	6
7	0B	0B	0.015B	4.45 B	0.097	0.011	0.246	0.003	0	0	0.067B	0.004B	7
8	0B	0B	0.095B	3.60 B	0.074	0.016	0.182	0.001	0	0	0.057B	0.004B	8
9	0B	0B	0.059B	3.13 B	0.066	0.016	0.131	0	0	0	0.046B	0.003B	9
10	0B	0B	0.135B	2.54 B	0.106	0.011	0.143	0	0	0	0.037B	0.003B	10
11	0B	0B	0.182B	2.43 B	0.108	0.009	0.183	0	0	0	0.031B	0.002B	11
12	0B	0B	0.345B	1.99 B	0.144	0.008	0.164	0	0	0	0.024B	0.003B	12
13	0B	0B	1.23 B	1.58 B	0.145	0.007	0.135	0	0	0	0.017B	0.003B	13
14	0B	0B	0.856B	1.38	0.120	0.006	0.103	0	0	0	0.016B	0.003B	14
15	0B	0B	0.539B	1.15	0.122	0.006	0.095	0	0	0	0.017B	0.003B	15
16	0B	0B	0.836B	0.988	0.194	0.004	0.082	0	0	0.318	0.015B	0.003B	16
17	0B	0B	0.329B	0.852	0.162	0.050	0.070	0	0	0.608	0.014B	0.003B	17
18	0B	0B	0.205B	0.479	0.312	0.216	0.058	0	0	0.551	0.013B	0.003B	18
19	0B	0B	0.120B	0.305	0.305	1.31	0.048	0	0	0.573	0.011B	0.003B	19
20	0B	0B	0.116B	0.294	0.252	1.35	0.042	0	0	0.591	0.007B	0.003B	20
21	0B	0B	0.112B	0.362	0.200	1.21	0.044	0	0	0.580	0.007B	0.002B	21
22	0B	0B	0.078B	0.396	0.159	1.10	0.041	0	0	0.579	0.007B	0.001B	22
23	0B	0B	0.102B	0.424	0.112	0.933	0.040	0	0	0.592	0.007B	0 B	23
24	0B	0B	0.096B	0.458	0.078	0.736	0.036	0	0	0.609	0.006B	0 B	24
25	0B	0B	0.075B	0.498	0.055	0.548	0.029	0	0	0.594	0.005B	0 B	25
26	0B	0B	0.071B	0.470	0.043	0.451	0.026	0	0	0.620	0.006B	0 B	26
27	0B	0B	0.073B	0.459	0.072	0.388	0.043	0	0	0.646	0.005B	0 B	27
28	0B	0B	0.102B	0.434	0.073	0.303	0.036	0	0	0.627	0.005B	0 B	28
29	0B		0.296B	0.382	0.051	0.221	0.025	0	0	0.629	0.004B	0 B	29
30	0B		0.820B	0.370	0.041	0.180	0.009	0	0	0.641	0.004B	0 B	30
31	0B		1.01 B		0.031		0.006	0		0.620		0 B	31
TOTAL	0	0	7.897	50.885	4.695	9.210	3.009	0.026	0	9.378	1.936	0.070	TOTAL
MEAN	0	0	0.255	1.70	0.152	0.307	0.097	0.001	0	0.303	0.065	0.002	MEAN
MAX	0	0	1.23	6.07	0.361	1.35	0.246	0.005	0	0.646	0.572	0.004	MAX
MIN	0	0	0	0.294	0.031	0.004	0.006	0	0	0	0.004	0	MIN

SUMMARY FOR THE YEAR 1990

ISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.239
MAXIMUM DAILY, 6.07B ON APR 05
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS,
7.04B AT 22:58 CST ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 50 28 N
LONG 101 23 48 W
DRAINAGE AREA, 3 860 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	260
FEB	0	AUG	2.25
MAR	682	SEP	0
APR	4 400	OCT	810
MAY	406	NOV	167
JUN	796	DEC	6.05

TOTAL DISCHARGE, 7 530 dam³

PLAYGREEN LAKE AT ENTRANCE TO EAST NELSON RIVER - STATION NO. 05UB005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.499	216.512	---	---	---	217.068	217.310	217.423	217.289	---	---	---	1
2	216.498	216.511	---	---	---	216.892	217.254	217.454	217.369A	---	---	---	2
3	216.496	216.509	---	---	---	216.871	217.181	217.359	217.400	---	---	---	3
4	216.497	216.509	---	---	---	216.957	217.174	217.283	217.321	---	---	---	4
5	216.496	216.510	---	---	---	217.051	217.217	217.358	217.404A	---	---	---	5
6	216.495	216.516	---	---	---	217.060	217.271	217.400	217.286	---	---	---	6
7	216.496	216.523	---	---	---	217.059	217.304	217.452	217.354A	---	---	---	7
8	216.493	216.523	---	---	---	217.070	217.296	217.417	217.298	---	---	---	8
9	216.490	216.523	---	---	---	217.098	217.256	217.278	217.244	---	---	---	9
10	216.489	216.524	---	216.639A	---	217.107	217.254	217.320	217.283	---	---	---	10
11	216.489	216.525	---	---	---	217.170	217.295	217.376	217.268	---	---	---	11
12	216.492	216.525	---	---	---	217.189	217.321	217.392	217.206	---	---	---	12
13	216.495	216.523	---	---	---	217.132	217.385	217.476	217.230	---	---	---	13
14	216.496	216.522	---	---	---	217.042	217.418	217.306	217.238	---	---	---	14
15	216.496	216.522	---	---	---	217.121	217.375	217.320	217.085	---	---	---	15
16	216.503	216.521	---	---	---	217.198	217.375	217.318	217.161	---	---	---	16
17	216.506	216.522	---	---	---	217.171	217.354	217.280	217.345A	---	---	---	17
18	216.507	216.522	---	---	---	217.172	217.320	217.296	217.307	---	---	---	18
19	216.507	216.521	---	---	---	217.201	217.312	217.349	217.126A	---	---	---	19
20	216.506	216.527	---	---	---	217.185	217.293	217.372	---	---	---	---	20
21	216.505	216.538	---	---	---	217.157	217.282	217.408	---	---	---	---	21
22	216.508	216.550	---	---	---	217.122	217.338	217.436	---	---	---	---	22
23	216.509	216.550E	---	---	---	217.148	217.371	217.463	---	---	---	---	23
24	216.508	216.546E	---	---	---	217.207	217.409	217.389	---	---	---	---	24
25	216.509	216.543E	---	---	---	217.198	217.326	217.283	---	---	---	---	25
26	216.512	216.550E	---	---	---	217.166	217.346	217.274	---	---	---	---	26
27	216.521	216.548E	---	---	---	217.198	217.420	217.310	---	---	---	---	27
28	216.521	216.550E	---	---	---	217.213	217.468	217.329	---	---	---	---	28
29	216.521		---	---	---	217.187	217.276	217.370	---	---	---	---	29
30	216.512		---	---	217.038A	217.232	217.333	217.370	---	---	---	---	30
31	216.513		---		217.066		217.381	217.428		---	---	---	31
MEAN	216.503	216.527	---	---	---	217.121	217.320	217.364	---	---	---	---	MEAN
MAX	216.521	216.550	---	---	---	217.232	217.468	217.476	---	---	---	---	MAX
MIN	216.489	216.509	---	---	---	216.871	217.174	217.274	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 217.476 ON AUG 13

MAXIMUM INSTANTANEOUS, 217.524 AT 06:51 CST ON AUG 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1978 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 54 10 N
LONG 097 58 30 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.006B	0.004B	0.039	0.165	0.364	0.128	0.142	0.065	---	---	1
2	---	---	0.006B	0.098B	0.042	0.120	0.204	0.142	0.080	0.065	---	---	2
3	---	---	0.008B	0.265B	0.037	0.081	0.187	0.328	0.063	0.064	---	---	3
4	---	---	0.008B	0.281B	0.038	0.055	0.193	0.376	0.078	0.062	---	---	4
5	---	---	0.006B	0.109B	0.037	0.106	0.496	0.351	0.064	0.062	---	---	5
6	---	---	0.006B	0.039B	0.039	0.113	0.690	0.329	0.053	0.061	---	---	6
7	---	---	0.009B	0.009B	0.038	0.099	0.813	0.307	0.052	0.061	---	---	7
8	---	---	0.009B	0.085B	0.038	0.152	0.910	0.289	0.044	0.061	---	---	8
9	---	---	0.010B	0.050B	0.030	0.101	0.884	0.214	0.038	0.065	---	---	9
10	---	---	0.009B	0.062B	0.023	0.167	0.827	0.172	0.032	0.066	---	---	10
11	---	---	0.006B	0.067B	0.024	0.162	0.851	0.180	0.030	0.047	---	---	11
12	---	---	0.009B	0.090B	0.023	0.236	0.855	0.181	0.031	0.041	---	---	12
13	---	---	0.005B	0.350B	0.021	0.276	0.852	0.176	0.027	0.043	---	---	13
14	---	---	0.002B	0.308B	0.112	0.098	0.738	0.159	0.024	0.047	---	---	14
15	---	---	0.001B	0.359B	0.037	0.069	0.585	0.146	0.022	0.047	---	---	15
16	---	---	0 B	0.361B	0.233	0.081	0.553	0.245	0.018	0.047	---	---	16
17	---	---	0 B	0.470B	0.237	0.068	0.862	0.232	0.017	0.046	---	---	17
18	---	---	0 B	1.07 B	0.112	0.057	0.542	0.239	0.016	0.048	---	---	18
19	---	---	0 B	2.14 B	0.068	0.051	0.600	0.240	0.016	0.049	---	---	19
20	---	---	0 B	1.71 B	0.081	0.086	0.556	0.268	0.015	0.050	---	---	20
21	---	---	0 B	1.30	0.093	0.123	0.505	0.254	0.013	0.053	---	---	21
22	---	---	0 B	1.04	0.113	0.128	0.484	0.264	0.012	0.054	---	---	22
23	---	---	0 B	0.759	0.117	0.187	0.470	0.238	0.009	0.055	---	---	23
24	---	---	0 B	0.522	0.115	0.275	0.428	0.166	0.009	0.055	---	---	24
25	---	---	0 B	0.309	0.116	0.280	0.390	0.197	0.009	0.056	---	---	25
26	---	---	0 B	0.136	0.111	0.224	0.314	0.214	0.009	0.058	---	---	26
27	---	---	0 B	0.067	0.113	0.187	0.319	0.175	0.009	0.059	---	---	27
28	---	---	0 B	0.060	0.113	0.486	0.376	0.171	0.056	0.059	---	---	28
29	---	---	0 B	0.051	0.103	0.407	0.232	0.157	0.068	0.086	---	---	29
30	---	---	0.004B	0.042	0.101	0.383	0.152	0.153	0.066	0.063	---	---	30
31	---	---	0.003B		0.116		0.136	0.151		0.043A			31
TOTAL	---	---	0.107	12.213	2.520	5.103	16.268	6.842	1.122	1.738	---	---	TOTAL
MEAN	---	---	0.004	0.407	0.081	0.170	0.525	0.221	0.037	0.056	---	---	MEAN
MAX	---	---	0.010	2.14	0.237	0.486	0.910	0.376	0.142	0.086	---	---	MAX
MIN	---	---	0	0.004	0.021	0.051	0.136	0.128	0.009	0.041	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.187
MAXIMUM DAILY, 2.14B ON APR 19
MINIMUM DAILY, 0B ON MAR 16
MAXIMUM INSTANTANEOUS, 2.73B AT 18:20 CST ON APR 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 06 16 N
LONG 100 52 57 W
DRAINAGE AREA, 261 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1972

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 410
FEB	---	AUG	591
MAR	9.24	SEP	98.9
APR	1 060	OCT	150
MAY	218	NOV	---
JUN	441	DEC	---

TOTAL DISCHARGE, 3 980 dam³

PLEASANT VALLEY RESERVOIR NEAR PETLURA - STATION NO. 05LJ808

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	540.171	540.281E	540.261E	540.072E	539.930E	---	---	1
2	---	---	---	---	---	540.176E	540.286E	540.251E	540.066E	539.927	---	---	2
3	---	---	---	---	---	540.181E	540.291	540.241	540.059	539.930E	---	---	3
4	---	---	---	---	---	540.186E	540.301E	540.231E	540.054E	539.934E	---	---	4
5	---	---	---	539.385	---	540.191	540.311E	540.221E	540.049E	539.937	---	---	5
6	---	539.322	---	---	---	540.194E	540.321	540.211E	540.044E	539.932E	---	---	6
7	---	---	---	---	---	540.198E	540.324E	540.201	540.039	539.927E	---	---	7
8	---	---	---	---	---	540.201	540.326E	540.198E	540.036E	539.922E	539.881	---	8
9	---	---	---	---	540.029	540.201E	540.329E	540.194E	540.034E	539.917	---	---	9
10	---	---	---	---	540.031	540.201E	540.331	540.191	540.031E	539.884E	---	---	10
11	---	---	---	---	540.061	540.201E	540.328E	540.178E	540.028	539.850E	---	---	11
12	---	---	---	---	540.061E	540.201	540.324E	540.165E	540.025E	539.817	---	---	12
13	---	---	---	---	540.061E	540.201E	540.321	540.152E	540.021E	539.845E	---	---	13
14	---	---	---	---	540.061E	540.201E	540.312E	540.139	540.018	539.872E	---	---	14
15	---	---	---	---	540.061	540.201	540.303E	540.126E	540.018E	539.900E	---	---	15
16	---	---	---	---	540.054E	540.203E	540.294E	540.114E	540.018E	539.927	---	---	16
17	---	---	---	---	540.048E	540.206E	540.285	540.101	540.018E	539.924E	---	539.723	17
18	---	---	---	---	540.041	540.208E	540.290E	540.099E	540.018	539.920E	---	---	18
19	---	---	---	---	540.076E	540.211	540.296E	540.097E	540.014E	539.917	---	---	19
20	---	---	---	---	540.111E	540.218E	540.301	540.095E	540.010E	---	---	---	20
21	---	---	539.346	---	540.146E	540.224E	540.304E	540.093E	540.006E	---	---	---	21
22	---	---	---	---	540.181	540.231	540.306E	540.092E	540.003E	---	---	---	22
23	---	---	---	---	540.188E	540.231E	540.309E	540.090E	539.999E	---	---	---	23
24	---	---	---	---	540.194E	540.231E	540.311	540.088E	539.995E	---	---	---	24
25	---	---	---	539.874	540.201	540.231E	540.301E	540.086E	539.991E	---	---	---	25
26	---	---	---	---	540.196E	540.231	540.291E	540.084E	539.987	---	---	---	26
27	---	---	---	---	540.191E	540.244E	540.281	540.082E	539.962E	---	---	---	27
28	---	539.316	---	---	540.186E	540.258E	540.279E	540.080	539.937	---	---	---	28
29	---		---	---	540.181	540.271	540.276E	540.080E	539.935E	---	---	---	29
30	---		---	---	540.178E	540.276E	540.273E	540.079E	539.932E	---	---	---	30
31	---		---		540.174E		540.271	540.079		---		---	31
MEAN	---	---	---	---	---	540.213	540.302	540.142	540.014	---	---	---	MEAN
MAX	---	---	---	---	---	540.276	540.331	540.261	540.072	---	---	---	MAX
MIN	---	---	---	---	---	540.171	540.271	540.079	539.932	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 540.331 ON JUL 10

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 03 27 N
LONG 100 56 14 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1972

DRAINAGE AREA,
233 km²

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.071B	0	0	0	0	0	0	---	---	1
2	---	---	0 B	0.033B	0	0	0	0	0	0	---	---	2
3	---	---	0 B	0.023B	0	0	0	0	0	0	---	---	3
4	---	---	0 B	0.020B	0	0	0	0	0	0	---	---	4
5	---	---	0 B	0.008B	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0.006B	0	0	0	0	0	0	---	---	6
7	---	---	0 B	0.007B	0	0	0	0	0	0	---	---	7
8	---	---	0 B	0.017	0	0.001	0	0	0	0	---	---	8
9	---	---	0.001B	0.017	0	0.003	0	0	0	0	---	---	9
10	---	---	0.001B	0.018	0	0.002	0	0	0	0	---	---	10
11	---	---	0.002B	0.013	0	0.003	0	0	0	0	---	---	11
12	---	---	0.034B	0.013	0	0.001	0	0	0	0	---	---	12
13	---	---	0.221B	0.015	0	0	0	0	0	0	---	---	13
14	---	---	0.107B	0.009	0	0	0	0	0	0	---	---	14
15	---	---	0.035B	0.007	0.001	0	0	0	0	0	---	---	15
16	---	---	0.026B	0.005	0.015	0	0	0	0	0	---	---	16
17	---	---	0.030B	0.002	0.021	0	0	0	0	0	---	---	17
18	---	---	0.020B	0.005	0.019	0.001	0	0	0	0	---	---	18
19	---	---	0.008B	0.004	0.020	0.002	0	0	0	0	---	---	19
20	---	---	0.003B	0.002	0.021	0.003	0	0	0	0	---	---	20
21	---	---	0 B	0	0.022	0.001	0	0	0	0	---	---	21
22	---	---	0 B	0	0.023	0	0	0	0	0	---	---	22
23	---	---	0 B	0	0.021	0	0	0	0	0	---	---	23
24	---	---	0 B	0	0.018	0	0	0	0	0	---	---	24
25	---	---	0 B	0	0.014	0	0	0	0	0	---	---	25
26	---	---	0 B	0	0.009	0	0	0	0	0	---	---	26
27	---	---	0 B	0	0.008	0	0	0	0	0	---	---	27
28	---	---	0 B	0	0.007	0	0	0	0	0	---	---	28
29	---	---	0.004B	0	0.004	0	0	0	0	0	---	---	29
30	---	---	0.046B	0	0.001	0	0	0	0	0	---	---	30
31	---	---	0.083B		0		0	0		0		---	31
TOTAL	---	---	0.621	0.295	0.224	0.017	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.020	0.010	0.007	0.001	0	0	0	0	---	---	MEAN
MAX	---	---	0.221	0.071	0.023	0.003	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.005
MAXIMUM DAILY, 0.221B ON MAR 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.259 AT 18:21 CST ON MAR 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 30 N
LONG 100 18 20 W
DRAINAGE AREA, 5 380 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	53.7	SEP	0
APR	25.5	OCT	0
MAY	19.4	NOV	---
JUN	1.47	DEC	---

TOTAL DISCHARGE, 100 dam³

PLUM LAKES ABOVE DELEAU DAM - STATION NO. 05NG801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	428.384A	428.552	428.460	428.040	---	---	---	---	1
2	---	---	---	428.649A	428.375	428.561	428.451	428.025	---	---	---	---	2
3	---	---	---	---	428.366	428.564	428.497	428.003	---	---	---	---	3
4	---	---	---	---	428.345	428.561	428.518	427.967	---	---	---	---	4
5	---	---	---	---	428.332	428.561	428.518	427.936	---	---	---	---	5
6	---	---	---	---	428.323	428.558	428.524	427.909	---	---	---	---	6
7	---	---	---	---	428.317	428.552	428.546	427.881	---	---	---	---	7
8	---	---	---	---	428.311	428.567	428.576	DRY	---	---	---	---	8
9	---	---	---	---	428.302	428.573	428.570	---	---	---	---	---	9
10	---	---	---	---	428.299	428.567	428.564	---	---	---	---	---	10
11	---	---	---	---	428.299	428.558	428.555	---	---	---	---	---	11
12	---	---	---	---	428.296	428.555	428.540	---	---	---	---	---	12
13	---	---	---	---	428.317	428.543	428.521	---	---	---	---	---	13
14	---	---	---	---	428.335	428.524	428.497	---	---	---	---	---	14
15	---	---	---	---	428.357	428.509	428.473	---	---	---	---	---	15
16	---	---	---	---	428.473	428.497	428.445	---	---	---	---	---	16
17	---	---	---	---	428.567	428.552	428.430	---	---	---	---	---	17
18	---	---	---	---	428.567	428.598	428.406	---	---	---	---	---	18
19	---	---	---	---	428.561	428.598	428.381	---	---	---	---	---	19
20	---	---	---	---	428.561	428.601	428.345	---	---	---	---	---	20
21	---	---	---	---	428.564	428.591	428.308	---	---	---	---	---	21
22	---	---	---	---	428.570	428.579	428.274	---	---	---	---	---	22
23	---	---	---	---	428.570	428.570	428.241	---	---	---	---	---	23
24	---	---	---	---	428.570	428.561	428.204	---	---	---	---	---	24
25	---	---	---	---	428.570	428.546	428.159	---	---	---	---	---	25
26	---	---	---	---	428.567	428.527	428.131	---	---	---	---	---	26
27	---	---	---	---	428.567	428.521	428.238	---	---	---	---	---	27
28	---	---	---	---	428.564	428.509	428.223	---	---	---	---	---	28
29	---	---	---	---	428.561	428.488	428.174	---	---	---	---	---	29
30	---		---	---	428.558	428.463	428.122	---	---	---	---	---	30
31	---		---		428.555		428.076	---					31
MEAN	---	---	---	---	428.448	428.550	428.386	---	---	---	---	---	MEAN
MAX	---	---	---	---	428.570	428.601	428.576	---	---	---	---	---	MAX
MIN	---	---	---	---	428.296	428.463	428.076	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 428.649A ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 36 30 N
LONG 100 38 41 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1958
DRAINAGE AREA,
5 140 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

PLUM LAKES NEAR FINDLAY - STATION NO. 05NG809

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	428.026A	428.010	427.990	427.823	---	---	---	---	1
2	---	---	---	428.113A	428.024	428.026	427.987	427.805	---	---	---	---	2
3	---	---	---	---	428.021	428.020	428.012	427.789	---	---	---	---	3
4	---	---	---	---	428.019	428.010	428.006	427.778	---	---	---	---	4
5	---	---	---	---	428.016	428.014	428.004	427.772	---	---	---	---	5
6	---	---	---	---	428.013	428.007	428.012	427.770	---	---	---	---	6
7	---	---	---	---	428.010	428.001	428.019	427.769	---	---	---	---	7
8	---	---	---	---	428.009	428.016	428.025	427.767	---	---	---	---	8
9	---	---	---	---	428.008	428.005	428.019	427.767	---	---	---	---	9
10	---	---	---	---	428.007	427.999	428.016	427.770	---	---	---	---	10
11	---	---	---	---	428.004	427.993	428.015	427.771	---	---	---	---	11
12	---	---	---	---	428.003	427.991	428.012	427.771	---	---	---	---	12
13	---	---	---	---	428.023	427.981	428.005	427.772	---	---	---	---	13
14	---	---	---	---	428.026	427.975	428.000	427.773	---	---	---	---	14
15	---	---	---	---	428.042	427.972	427.996	427.774	---	---	---	---	15
16	---	---	---	---	428.080	427.971	427.997	427.774	---	---	---	---	16
17	---	---	---	---	428.065	428.016	427.990	DRY	---	---	---	---	17
18	---	---	---	---	428.052	428.007	427.994	---	---	---	---	---	18
19	---	---	---	---	428.054	428.011	427.980	---	---	---	---	---	19
20	---	---	---	---	428.049	428.012	427.981	---	---	---	---	---	20
21	---	---	---	---	428.054	428.006	427.973	---	---	---	---	---	21
22	---	---	---	---	428.046	428.002	427.961	---	---	---	---	---	22
23	---	---	---	---	428.038	428.001	427.950	---	---	---	---	---	23
24	---	---	---	---	428.032	427.999	427.937	---	---	---	---	---	24
25	---	---	---	---	428.027	427.997	427.923	---	---	---	---	---	25
26	---	---	---	---	428.027	427.994	427.905	---	---	---	---	---	26
27	---	---	---	---	428.025	427.999	427.914	---	---	---	---	---	27
28	---	---	---	---	428.020	427.995	427.903	---	---	---	---	---	28
29	---	---	---	---	428.012	427.987	427.885	---	---	---	---	---	29
30	---		---	---	428.009	427.977	427.864	---	---	---	---	---	30
31	---		---		428.009		427.843	---					31
MEAN	---	---	---	---	428.027	428.000	427.972	---	---	---	---	---	MEAN
MAX	---	---	---	---	428.080	428.026	428.025	---	---	---	---	---	MAX
MIN	---	---	---	---	428.003	427.971	427.843	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 428.113A ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 45 N
LONG 100 43 08 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1958
DRAINAGE AREA,
5 140 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	14.5E	11.3	9.63	9.91	151	164	63.8	24.4	10.5	4.74	4.04	3.70	1
2	14.5A	11.3	9.36	10.0	161	161	62.7	23.8	10.3	6.04	3.51	3.63	2
3	14.3E	11.3	9.21	10.2	171	149	62.1	22.7	9.55	4.46	3.17	3.64	3
4	14.2E	11.3	9.17	10.4	182	145	58.7	22.7	9.13	3.98	3.70	3.66	4
5	14.0E	11.2	9.15	10.3	191	139	55.4	22.3	8.94	4.48	3.71	3.71	5
6	13.8E	11.1	9.09	10.4	200	134	53.9	21.7	9.36	4.45	3.64	3.66	6
7	13.6E	11.1	9.02	10.4	208	133	51.6	21.1	8.59	4.57	3.68	3.66	7
8	13.4A	11.2	8.97	10.5	214	127	49.4	19.8	8.21	4.68	3.76	3.70	8
9	13.1A	11.1	8.86	10.5	220	123	48.8	19.7	8.19	4.55	3.70	3.72	9
10	13.1	11.0	8.74	10.4	224	119	47.7	18.9	8.06	4.57	3.65	3.64	10
11	13.2	10.9	8.74	10.5	226	116	46.1	18.5	7.87	3.17	3.59	3.65	11
12	13.1	11.0	8.68	10.5	226	112	44.1	18.2	8.90	4.66	3.57	3.65	12
13	13.0	10.9	8.66	10.5	227	108	42.6	17.3	7.34	4.45	3.57	3.68	13
14	12.9	10.9	8.66	10.5	225	105	41.2	16.6	6.88	4.35	3.62	3.72	14
15	12.8	10.8	9.06	10.6	224	102	39.1	16.9	6.88	4.04	3.56	3.75	15
16	12.7	10.7	9.66	10.5	220	98.9	38.1	16.3	6.89	4.29	3.45	3.74	16
17	12.5	10.6	9.83	10.7	219	96.8	36.9	16.0	6.74	4.55	3.46	3.69	17
18	12.3	10.6	9.89	11.0	221	92.3	35.4	15.9	5.34	4.57	3.46	3.70	18
19	12.3	10.4	9.93	11.9	220	89.7	34.5	15.0	6.06	4.76	3.43	3.68	19
20	12.1	10.5	9.90	13.6	218	88.7	33.8	14.2	6.79	4.21	3.43	3.59	20
21	12.1	10.4	9.82	16.1	215	86.0	33.4	13.7	6.54	4.16	3.50	3.56	21
22	12.1	10.2	9.80	19.9	212	84.9	32.3	13.7	6.26	4.72	3.74	3.52	22
23	12.0	10.0	9.86	26.0	209	82.6	31.6	13.9	5.97	4.26	3.77	3.49	23
24	12.0	9.93	9.91	37.0	205	80.6	30.4	12.5	6.29	4.31	3.77	3.60	24
25	11.9	9.80	9.82	53.1	201	79.2	30.0	12.3	5.57	4.13	3.78	3.62	25
26	11.8	9.84	9.84	75.4	196	76.8	29.3	12.2	4.76	3.63	3.79	3.62	26
27	11.7	9.77	9.83	95.9	193	75.5	28.6	11.3	5.33	3.06	3.72	3.62	27
28	11.6	9.73	9.84	113	186	70.7	26.1	11.1	5.67	4.00	3.71	3.62	28
29	11.6		9.93	128	180	68.8	25.5	10.7	5.51	3.29	3.71	3.65	29
30	11.5		9.95	140	174	66.6	24.1	10.9	5.25	3.91	3.72	3.65	30
31	11.5		9.97		169		24.4	9.98		3.89		3.65	31
TOTAL	395.2	298.87	292.78	917.71	6 288	3 174.1	1 261.6	513.28	217.47	132.93	108.91	113.17	TOTAL
MEAN	12.7	10.7	9.44	30.6	203	106	40.7	16.6	7.25	4.29	3.63	3.65	MEAN
MAX	14.5	11.3	9.97	140	227	164	63.8	24.4	10.5	6.04	4.04	3.75	MAX
MIN	11.5	9.73	8.66	9.91	151	66.6	24.1	9.98	4.76	3.06	3.17	3.49	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 37.6
MAXIMUM DAILY, 227 ON MAY 13
MINIMUM DAILY, 3.06 ON OCT 27
MAXIMUM INSTANTANEOUS,
229 AT 21:46 CST ON MAY 12

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 46 40 N
LONG 096 45 10 W
DRAINAGE AREA, 6 850 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	34 100	JUL	109 000
FEB	25 800	AUG	44 300
MAR	25 300	SEP	18 800
APR	79 300	OCT	11 500
MAY	543 000	NOV	9 410
JUN	274 000	DEC	9 780

TOTAL DISCHARGE, 1 180 000 dam³

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	0	---	---	---	---	---	---	1
2	---	---	0	0	0	0	---	---	---	---	---	---	2
3	---	---	0	0	0	0	---	---	---	---	---	---	3
4	---	---	0	0	0	0	---	---	---	---	---	---	4
5	---	---	0	0	0	0	---	---	---	---	---	---	5
6	---	---	0	0	0	0	---	---	---	---	---	---	6
7	---	---	0	0	0	0	---	---	---	---	---	---	7
8	---	---	0	0	0	0	---	---	---	---	---	---	8
9	---	---	0	0	0	0	---	---	---	---	---	---	9
10	---	---	0	0	0	0	---	---	---	---	---	---	10
11	---	---	0	0	0	0	---	---	---	---	---	---	11
12	---	---	0	0	0	0	---	---	---	---	---	---	12
13	---	---	0	0	0	0	---	---	---	---	---	---	13
14	---	---	0	0	0	0	---	---	---	---	---	---	14
15	---	---	0	0	0	0	---	---	---	---	---	---	15
16	---	---	0	0	0	0	---	---	---	---	---	---	16
17	---	---	0	0	0	0	---	---	---	---	---	---	17
18	---	---	0	0	0	0	---	---	---	---	---	---	18
19	---	---	0	0	0	0	---	---	---	---	---	---	19
20	---	---	0	0	0	0	---	---	---	---	---	---	20
21	---	---	0	0	0	0	---	---	---	---	---	---	21
22	---	---	0	0	0	0	---	---	---	---	---	---	22
23	---	---	0	0	0	0	---	---	---	---	---	---	23
24	---	---	0	0	0	0	---	---	---	---	---	---	24
25	---	---	0	0	0	0	---	---	---	---	---	---	25
26	---	---	0	0	0	0	---	---	---	---	---	---	26
27	---	---	0	0	0	0	---	---	---	---	---	---	27
28	---	---	0	0	0	0	---	---	---	---	---	---	28
29	---	---	0	0	0	0	---	---	---	---	---	---	29
30	---		0	0	0	0	---	---	---	---	---	---	30
31	---		0		0		---	---		---		---	31
TOTAL	---	---	0	0	0	0	---	---	---	---	---	---	TOTAL
MEAN	---	---	0	0	0	0	---	---	---	---	---	---	MEAN
MAX	---	---	0	0	0	0	---	---	---	---	---	---	MAX
MIN	---	---	0	0	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0 ON MAR 01
MINIMUM DAILY, 0 ON MAR 01

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 58 00 N
LONG 098 22 50 W

REGULATED SINCE 1970

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	0	SEP	---
APR	0	OCT	---
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

PORTAGE RESERVOIR NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	260.790	260.660	260.888	261.614	264.528A	264.858	264.780	264.714	264.578E	261.335A	260.618	260.980	1
2	260.752	260.839	260.911	261.662	264.528	264.845	264.764	264.709	264.575E	261.145A	260.630	260.804	2
3	260.659	260.734	260.899	261.756	264.519	264.865	264.765	264.699	264.573E	260.890A	260.598	260.794	3
4	260.749	260.829	260.885	261.977	264.545	264.854	264.743	264.687	264.570A	260.358A	260.626	260.619	4
5	260.743	260.783	260.916	262.062	264.597	264.839	264.721	264.693	264.560A	260.381A	260.594	260.469	5
6	260.765	260.782	260.902	262.180	264.556	264.823	264.734	264.702	264.540A	260.649	260.450	260.501	6
7	260.803	260.839	260.883	262.150	264.536	264.814	264.794	264.707	264.520A	260.622	260.349	260.754	7
8	260.748	260.806	260.890E	262.084	264.585	264.837	264.805	264.693	264.510E	260.648	260.631	260.805	8
9	260.766	260.807	260.931A	262.056A	264.627	264.871	264.801	264.685	264.500E	260.297A	260.809	260.868	9
10	260.738	260.846	260.890E	262.100	264.658A	264.876	264.801	264.674	264.490A	260.059	260.667	260.879	10
11	260.714	260.812	260.870E	262.114	264.709	264.843	264.802	264.672	264.470A	260.547	260.751	260.856	11
12	260.834	260.851	260.847A	262.123A	264.701	264.810	264.804	264.660	264.470A	260.852	260.927	260.754	12
13	260.787	260.871	260.968	262.104A	264.679	264.806	264.804	264.673	264.460A	260.910	260.638	260.740	13
14	260.730	260.832	261.147	262.356A	264.681	264.779	264.794	264.670	264.450A	260.819	260.999	260.778	14
15	260.754	260.879	261.177	262.283A	264.722	264.773	264.792	264.664	264.450E	260.648	260.981	260.736	15
16	260.606	260.878	261.551	262.359A	264.723	264.774	264.793	264.652	264.450A	260.776	260.705	260.747	16
17	260.746	260.731	261.545	262.309A	264.737	264.781	264.789	264.638	264.440A	260.615	260.876	260.671	17
18	260.820	260.854	261.458	262.193	264.766A	264.778	264.783	264.621	264.370A	260.638	260.921	260.574	18
19	260.791	260.931	261.555	262.526	264.808	264.777	264.779	264.622	264.260A	260.688	260.816	260.776	19
20	260.758	260.872	261.549	262.761	264.808	264.780	264.765	264.622	264.148A	260.655	260.994	260.681A	20
21	260.799	260.907	261.514	262.972	264.782	264.783	264.760	264.627	264.100	260.698	260.939	260.736A	21
22	260.750	260.879	261.481	263.213	264.761	264.768	264.760	264.643	264.073	260.624	260.599	260.716A	22
23	260.782	260.899	261.460	263.680	264.746	264.769	264.754	264.674A	264.070	260.614	260.504	260.683A	23
24	260.771	260.915	261.440	264.115	264.734	264.772	264.740	264.662A	264.054	260.816	260.758	260.809A	24
25	260.697	260.912	261.414	264.352	264.746	264.797	264.734	264.645E	263.957	260.955	260.638	260.819A	25
26	260.756	260.911	261.377	264.397	264.793	264.811	264.729	264.627E	263.696	261.003	260.557	260.732A	26
27	260.788	260.908	261.328	264.433E	264.814	264.818	264.729	264.610A	263.353A	260.939	260.852	260.629A	27
28	260.826	260.893	261.333	264.456E	264.837	264.814	264.728	264.592A	262.956A	260.984	260.862	260.655A	28
29	260.843		261.367	264.481E	264.858	264.804	264.714	264.583A	262.379A	260.881	260.964	260.762A	29
30	260.814		261.407	264.512E	264.870	264.793	264.714	264.583A	261.801A	260.688	261.100	260.678A	30
31	260.798		261.495		264.870		264.712	264.580A		260.646		260.742A	31
MEAN	260.764	260.845	261.203	262.786	264.704	264.810	264.764	264.655	264.127	260.722	260.745	260.734	MEAN
MAX	260.843	260.931	261.555	264.512	264.870	264.876	264.805	264.714	264.578	261.335	261.100	260.980	MAX
MIN	260.606	260.660	260.847	261.614	264.519	264.768	264.712	264.580	261.801	260.059	260.349	260.469	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 262.580
MAXIMUM DAILY, 264.876 ON JUN 10
MINIMUM DAILY, 260.059 ON OCT 10
MAXIMUM INSTANTANEOUS,
264.885 AT 00:49 CST ON JUN 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 56 43 N
LONG 098 20 12 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1970
DRAINAGE AREA,
152 000 km²

WATER LEVELS ARE REFERRED TO PORTAGE DIVERSION DATUM
APPLY 0.000 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

RAT LAKE NEAR NOTIGI CONTROL STRUCTURE - STATION NO. 05TF004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	27.431	26.926	26.472	27.009	27.330	27.329	27.728	28.117	28.208	28.086	27.927	27.669	1
2	27.418	26.904	26.474	27.015	27.334	27.324	27.760	28.125	28.202	28.088	27.924	27.659	2
3	27.400	26.881	26.474	27.022	27.341	27.319	27.787	28.122	28.197	28.118	27.919	27.651	3
4	27.381	26.861	26.476	27.027	27.349	27.312	27.816	28.123	28.185	28.137	27.894	27.646	4
5	27.364	26.845	26.501	27.036	27.362	27.307	27.838	28.124	28.174	28.140	27.878	27.646	5
6	27.350	26.834	26.537	27.043	27.378	27.305	27.856	28.122	28.176	28.140	27.862	27.635	6
7	27.339	26.820	26.574	27.051	27.397	27.298	27.879	28.123	28.160	28.138	27.840	27.632	7
8	27.326	26.809	26.603	27.054	27.418	27.292	27.906	28.124	28.153	28.131	27.826	27.627	8
9	27.309	26.792	26.637	27.057	27.429	27.290	27.929	28.132	28.148	28.112	27.814	27.624	9
10	27.300	26.776	26.664	27.060	27.437	27.285	27.945	28.141	28.145	28.102	27.796	27.612	10
11	27.289	26.749	26.691	27.067	27.441	27.294	27.963	28.147	28.154	28.119	27.782	27.611	11
12	27.271	26.719	26.712	27.073	27.442	27.329	27.965	28.151	28.149	28.124	27.767	27.607	12
13	27.252	26.693	26.733	27.076	27.442	27.349	27.967	28.154	28.156	28.133	27.753	27.601	13
14	27.237	26.669	26.754	27.082	27.445	27.363	27.972	28.148	28.150	28.133	27.745	27.598	14
15	27.219	26.655	26.775	27.090	27.445	27.366	27.976	28.149	28.151	28.125	27.730	27.592	15
16	27.205	26.643	26.793	27.096	27.444	27.376	27.982	28.150	28.145	28.113	27.712	27.591	16
17	27.185	26.633	26.809	27.104	27.443	27.396	27.990	28.151	28.129	28.112	27.696	27.587	17
18	27.165	26.623	26.824	27.110	27.438	27.415	28.000	28.149	28.120	28.099	27.682	27.580	18
19	27.150	26.602	26.841	27.117	27.434	27.425	28.010	28.155	28.116	28.088	27.671	27.571	19
20	27.127	26.579	26.853	27.117	27.419	27.438	28.020	28.153	28.124	28.087	27.664	27.561	20
21	27.120	26.567	26.868	27.126	27.409	27.463	28.030	28.144	28.128	28.079	27.658	27.550	21
22	27.107	26.547	26.882	27.137	27.404	27.488	28.036	28.149	28.124	28.069	27.671	27.542	22
23	27.095	26.526	26.892	27.157	27.396	27.508	28.043	28.152	28.117	28.065	27.678	27.535	23
24	27.084	26.512	26.904	27.182	27.387	27.525	28.049	28.156	28.120	28.050	27.678	27.525	24
25	27.067	26.500	26.914	27.210	27.375	27.551	28.052	28.158	28.121	28.024	27.673	27.515	25
26	27.056	26.495	26.925	27.233	27.366	27.573	28.056	28.159	28.115	28.007	27.668	27.505	26
27	27.043	26.483	26.940	27.259	27.359	27.603	28.067	28.156	28.113	27.995	27.663	27.500	27
28	27.019	26.475	26.953	27.277	27.354	27.629	28.091	28.156	28.110	27.976	27.663	27.498	28
29	27.000		26.965	27.305	27.348	27.658	28.097	28.152	28.107	27.965	27.655	27.490	29
30	26.973		26.977	27.324	27.341	27.692	28.099	28.154	28.089	27.940	27.664	27.484	30
31	26.950		26.994		27.331		28.109	28.192		27.931		27.478	31
MEAN	27.201	26.683	26.755	27.117	27.395	27.417	27.968	28.145	28.143	28.078	27.752	27.578	MEA
MAX	27.431	26.926	26.994	27.324	27.445	27.692	28.109	28.192	28.208	28.140	27.927	27.669	MAX
MIN	26.950	26.475	26.472	27.009	27.330	27.285	27.728	28.117	28.089	27.931	27.655	27.478	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 27.525
MAXIMUM DAILY, 28.208 ON SEP 01
MINIMUM DAILY, 26.472 ON MAR 01
MAXIMUM INSTANTANEOUS,
28.216 AT 17:52 CST ON AUG 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 07 57 N
LONG 099 29 09 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	8.11B	2.06	1.36	2.59	0.327	0	0	0.011	0.004B	1
2	0B	0B	0 B	8.09B	2.02	2.81	2.49	0.267	0	0	0.013	0.003B	2
3	0B	0B	0 B	8.94B	1.94	4.28	2.59	0.205	0	0	0.012	0.002B	3
4	0B	0B	0 B	8.05B	1.88	4.60	3.08	0.179	0	0	0.010	0.002B	4
5	0B	0B	0 B	5.76B	1.82	5.54	3.75	0.153	0	0	0.009	0.002B	5
6	0B	0B	0 B	4.04B	1.78	5.69	4.13	0.136	0	0	0.007	0.001B	6
7	0B	0B	0 B	3.41B	1.73	5.30	4.45	0.098	0	0	0.006	0 B	7
8	0B	0B	0 B	3.28B	1.72	5.14	4.97	0.065	0	0	0.005	0 B	8
9	0B	0B	0 B	3.11B	1.60	5.16	5.20	0.042	0	0	0.004	0 B	9
10	0B	0B	0 B	3.15B	1.53	5.04	5.53	0.030	0	0	0.002	0 B	10
11	0B	0B	0 B	3.02B	1.54	5.06	5.85	0.029	0	0	0.002	0 B	11
12	0B	0B	0 B	3.05B	1.49	8.38	5.52	0.028	0	0	0.002	0 B	12
13	0B	0B	0 B	3.40B	1.48	9.22	4.60	0.020	0	0	0.002	0 B	13
14	0B	0B	0.023B	3.33	1.46	6.66	3.92	0.013	0	0	0.002	0 B	14
15	0B	0B	0.421B	2.95	1.43	5.63	3.44	0.010	0	0	0.002	0 B	15
16	0B	0B	0.448B	2.68	1.53	4.94	3.09	0.002	0	0	0.002	0 B	16
17	0B	0B	0.423B	2.46	1.73	4.37	2.82	0	0	0	0.002	0 B	17
18	0B	0B	0.393B	2.51	1.99	4.00	2.54	0	0	0	0.002	0 B	18
19	0B	0B	0.343B	2.74	2.04	3.78	2.28	0	0	0	0.002	0 B	19
20	0B	0B	0.380B	2.46	2.10	3.72	2.08	0	0	0	0.002	0 B	20
21	0B	0B	0.362B	2.30	2.01	3.71	1.86	0	0	0	0.012	0 B	21
22	0B	0B	0.396B	2.24	2.16	3.66	1.69	0	0	0	0.009B	0 B	22
23	0B	0B	0.412B	2.25	2.06	3.89	1.52	0	0	0	0.008B	0 B	23
24	0B	0B	0.432B	2.16	2.01	3.94	1.35	0	0	0.001	0.008B	0 B	24
25	0B	0B	0.465B	1.98	2.00	3.76	1.19	0	0	0.002	0.008B	0 B	25
26	0B	0B	0.547B	1.93	1.92	3.48	1.04	0	0	0.003	0.008B	0 B	26
27	0B	0B	0.670B	1.85	1.85	3.22	0.890	0	0	0.004	0.008B	0 B	27
28	0B	0B	0.903B	1.87	1.76	3.00	0.741	0	0	0.005	0.008B	0 B	28
29	0B		1.43 B	1.98	1.60	2.79	0.605	0	0	0.006	0.005B	0 B	29
30	0B		2.39 B	2.05	1.51	2.67	0.519	0	0	0.007	0.004B	0 B	30
31	0B		6.05 B		1.41		0.405	0		0.009		0 B	31
TOTAL	0	0	16.488	105.15	55.16	134.80	86.810	1.604	0	0.037	0.177	0.014	TOTAL
MEAN	0	0	0.532	3.51	1.78	4.49	2.80	0.052	0	0.001	0.006	0.001	MEAN
MAX	0	0	6.05	8.94	2.16	9.22	5.85	0.327	0	0.009	0.013	0.004	MAX
MIN	0	0	0	1.85	1.41	1.36	0.405	0	0	0	0.002	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.10
MAXIMUM DAILY, 9.22 ON JUN 13
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS,
10.3 AT 23:39 CST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 27 42 N
LONG 097 00 26 W
DRAINAGE AREA, 1 340 km²

B - ICE CONDITIONS

REGULATED SINCE 1959

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	7 500
FEB	0	AUG	139
MAR	1 420	SEP	0
APR	9 080	OCT	3.20
MAY	4 770	NOV	15.3
JUN	11 600	DEC	1.21

TOTAL DISCHARGE, 34 500 dam³

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.76B	1.77	1.33	1.17	0.098	0	0.001	---	---	1
2	---	---	0 B	2.85B	1.73	2.71	1.08	0.063	0	0.001	---	---	2
3	---	---	0 B	3.09B	1.71	4.07	1.53	0.036	0	0.001	---	---	3
4	---	---	0 B	2.92	1.70	4.76	3.34	0.031	0	0.001	---	---	4
5	---	---	0 B	1.94	1.67	4.73	4.00	0.016	0	0.001	---	---	5
6	---	---	0 B	1.69	1.58	4.37	4.21	0.010	0	0.001	---	---	6
7	---	---	0 B	1.71	1.64	3.94	4.53	0.006	0	0.001	---	---	7
8	---	---	0 B	1.72	1.53	4.13	5.27	0.003	0	0.001	---	---	8
9	---	---	0 B	1.73	1.44	4.12	5.34	0.001	0	0.001	---	---	9
10	---	---	0 B	1.72	1.42	3.94	5.02	0	0	0.001	---	---	10
11	---	---	0.001B	1.62	1.40	3.71	4.30	0	0	0.001	---	---	11
12	---	---	0.005B	1.86	1.43	4.30	3.40	0	0	0.001	---	---	12
13	---	---	0.018B	2.13	1.50	4.77	2.65	0	0	0.001	---	---	13
14	---	---	0.066B	2.00	1.43	4.57	2.03	0.001	0	0.001	---	---	14
15	---	---	0.235B	1.92	1.47	4.17	1.68	0.001	0	0.001	---	---	15
16	---	---	0.546B	1.84	1.48	3.62	1.35	0.001	0	0.001	---	---	16
17	---	---	0.448B	1.64	1.64	3.14	1.13	0.001	0	0.001	---	---	17
18	---	---	0.393B	1.69	1.72	2.89	0.909	0.001	0	0.001	---	---	18
19	---	---	0.367B	1.65	1.70	2.61	0.728	0	0	0.001	---	---	19
20	---	---	0.358B	1.61	1.64	2.69	0.576	0	0	0.001	---	---	20
21	---	---	0.386B	1.60	1.68	2.74	0.496	0	0.001	0.001	---	---	21
22	---	---	0.394B	1.62	1.65	3.32	0.431	0	0.001	0.001	---	---	22
23	---	---	0.399B	1.62	1.74	3.22	0.357	0	0.001	0.001	---	---	23
24	---	---	0.448B	1.46	1.78	2.91	0.314	0	0.001	0.001	---	---	24
25	---	---	0.491B	1.48	1.77	2.53	0.273	0	0.001	0.001	---	---	25
26	---	---	0.519B	1.46	1.72	2.13	0.234	0	0.001	0.001	---	---	26
27	---	---	0.539B	1.45	1.66	1.82	0.224	0	0.001	0.001	---	---	27
28	---	---	0.563B	1.62	1.62	1.59	0.266	0	0.001	0.001	---	---	28
29	---	---	0.632B	1.72	1.56	1.50	0.222	0	0.001	0.001A	---	---	29
30	---		1.02 B	1.78	1.46	1.39	0.171	0	0.001	0.001E	---	---	30
31	---		1.82 B		1.40		0.127	0		0.001E		---	31
TOTAL	---	---	9.648	55.90	49.64	97.72	57.358	0.269	0.010	0.031	---	---	TOTAL
MEAN	---	---	0.311	1.86	1.60	3.26	1.85	0.009	0	0.001	---	---	MEAN
MAX	---	---	1.82	3.09	1.78	4.77	5.34	0.098	0.001	0.001	---	---	MAX
MIN	---	---	0	1.45	1.40	1.33	0.127	0	0	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.10
MAXIMUM DAILY, 5.34 ON JUL 09
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
5.44 AT 21:20 CST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 04 N
LONG 096 56 39 W
DRAINAGE AREA, 854 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1959

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 960
FEB	---	AUG	23.2
MAR	834	SEP	0.864
APR	4 830	OCT	2.68
MAY	4 290	NOV	---
JUN	8 440	DEC	---

TOTAL DISCHARGE, 23 400 dam³

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.047B	0.101B	0.113B	2.33 B	2.25	0.745	0.585	0.028	0.004	0.001	0.141	0.084B	1
2	0.050B	0.102B	0.109B	2.55 B	2.16	1.47	0.503	0.051	0.001	0.006	0.145	0.079B	2
3	0.055B	0.111B	0.112B	2.50 B	2.09	2.99	2.26	0.027	0.001	0.009	0.128	0.078B	3
4	0.054B	0.107B	0.118B	2.19 B	2.00	3.46	1.51	0.013	0.001	0.011	0.117	0.078B	4
5	0.057B	0.106B	0.121B	1.62 B	1.90	3.28	1.44	0.011	0.002	0.013	0.135	0.080B	5
6	0.063B	0.107B	0.124B	1.19 B	1.87	2.63	1.46	0.008	0.005	0.022	0.136B	0.079B	6
7	0.070B	0.113B	0.126B	1.05 B	1.77	2.15	2.44	0.004	0.006	0.028	0.133B	0.079B	7
8	0.070B	0.118B	0.132B	1.06 B	1.72	2.25	2.80	0.006	0.005	0.036	0.129B	0.081B	8
9	0.068B	0.123B	0.138B	1.04 B	1.58	2.61	2.50	0.008	0.003	0.052	0.125B	0.080B	9
10	0.070B	0.123B	0.145B	1.10 B	1.44	2.41	2.10	0.003	0.002	0.070	0.115B	0.077B	10
11	0.075B	0.118B	0.165B	1.02 B	1.34	2.48	1.60	0.002	0.001	0.083	0.108B	0.075B	11
12	0.072B	0.119B	0.231B	1.04 B	1.23	2.80	1.17	0.006	0.001	0.095	0.118B	0.075B	12
13	0.075B	0.117B	0.708B	1.12 B	1.16	3.94	0.837	0.006	0.001	0.112	0.120B	0.074B	13
14	0.077B	0.119B	1.47 B	1.21 B	1.29	3.47	0.622	0.007	0.001	0.116	0.120B	0.073B	14
15	0.079B	0.124B	1.31 B	1.25 B	1.34	2.75	0.567	0.019	0.001	0.124	0.118B	0.072B	15
16	0.083B	0.117B	1.98 B	1.12 B	1.60	2.11	0.430	0.006	0.005	0.132	0.120B	0.071B	16
17	0.089B	0.114B	2.54 B	1.08 B	2.78	1.71	0.370	0.007	0.001	0.119	0.125B	0.069B	17
18	0.093B	0.108B	2.32 B	0.991	3.12	1.37	0.283	0.006	0.005	0.104	0.128B	0.065B	18
19	0.098B	0.101B	2.02 B	1.23	3.09	1.24	0.265	0.005	0.013	0.094	0.126B	0.061B	19
20	0.103B	0.102B	1.24 B	1.48	2.73	1.76	0.238	0.005	0.015	0.087	0.127B	0.060B	20
21	0.105B	0.114B	1.08 B	1.88	2.34	4.65	0.172	0.004	0.025	0.081	0.141B	0.059B	21
22	0.105B	0.121B	1.03 B	1.98	2.15	4.51	0.167	0.006	0.024	0.080	0.129B	0.058B	22
23	0.101B	0.123B	0.873B	2.03	1.97	3.57	0.157	0.006	0.011	0.080	0.110B	0.055B	23
24	0.099B	0.120B	0.588B	2.02	2.02	2.53	0.196	0.007	0.004	0.103	0.102B	0.055B	24
25	0.097B	0.115B	0.523B	2.09	1.71	1.85	0.174	0.007	0.003	0.122	0.092B	0.054B	25
26	0.101B	0.113B	0.459B	2.10	1.48	1.42	0.139	0.006	0.002	0.126	0.091B	0.051B	26
27	0.110B	0.105B	0.369B	2.00	1.26	1.11	0.156	0.006	0.001	0.123	0.090B	0.050B	27
28	0.102B	0.107B	0.399B	1.97	1.07	0.931	0.132	0.006	0.001	0.112	0.089B	0.049B	28
29	0.102B		0.538B	2.21	0.958	0.813	0.106	0.007	0.001	0.120	0.087B	0.049B	29
30	0.107B		1.00 B	2.27	0.862	0.696	0.081	0.007	0.001	0.117		0.049B	30
31	0.107B		1.89 B		0.807		0.041	0.006		0.122		0.048B	31
TOTAL	2.584	3.168	23.973	48.721	55.087	70.705	25.487	0.296	0.147	2.509	3.532	2.067	TOTAL
MEAN	0.083	0.113	0.773	1.62	1.78	2.36	0.822	0.010	0.005	0.081	0.118	0.067	MEAN
MAX	0.110	0.124	2.54	2.55	3.12	4.65	2.80	0.051	0.025	0.132	0.145	0.084	MAX
MIN	0.047	0.101	0.109	0.991	0.807	0.696	0.041	0.002	0.001	0.001	0.087	0.048	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.653
MAXIMUM DAILY, 4.65 ON JUN 21
MINIMUM DAILY, 0.001 ON SEP 02
MAXIMUM INSTANTANEOUS,
4.94 AT 15:20 CST ON JUN 21

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 35 N
LONG 096 17 00 W
DRAINAGE AREA, 398 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	223	JUL	2 200
FEB	274	AUG	25.6
MAR	2 070	SEP	12.7
APR	4 210	OCT	217
MAY	4 760	NOV	305
JUN	6 110	DEC	179

TOTAL DISCHARGE, 20 600 dam³

RED DEER LAKE NEAR BARROWS - STATION NO. 05LC003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	261.704	261.679	261.680E	261.694	262.145	262.593	262.274	262.101	261.855	261.659	261.603	261.549	1
2	261.703	261.683	261.682	261.703	262.153	262.592	262.306	262.088	261.847	261.696	261.561	261.550	2
3	261.699	261.684	261.687	261.710	262.162	262.541	262.358	262.068	261.824	261.510	261.581	261.547	3
4	261.697	261.682	261.685	261.721	262.176	262.536	262.343	262.057	261.796	261.562	261.586	261.550	4
5	261.694	261.684	261.684	261.746	262.192	262.517	262.311	262.059	261.789	261.637	261.560	261.551	5
6	261.700	261.687	261.684	261.779	262.223	262.493	262.327	262.052	261.814	261.593	261.572	261.550	6
7	261.702	261.681	261.685	261.806	262.251	262.507	262.326	262.046	261.776	261.622	261.573	261.557	7
8	261.701	261.680	261.684	261.829	262.283	262.490	262.312	262.013	261.798	261.628	261.575	261.556	8
9	261.701	261.677	261.680	261.839	262.306	262.483	262.332	262.014	261.764	261.618	261.568	261.551	9
10	261.702	261.679	261.682	261.850	262.338	262.483	262.334	262.001	261.770	261.586	261.568	261.547	10
11	261.703	261.682	261.682	261.859	262.366	262.457	262.337	261.993	261.778	261.483	261.564	261.546	11
12	261.702	261.686	261.682	261.865	262.387	262.447	262.317	261.971	261.806	261.624	261.571	261.546	12
13	261.699	261.681	261.679	261.872	262.410	262.445	262.311	261.958	261.760	261.574	261.569	261.549	13
14	261.698	261.686	261.683	261.877	262.431	262.415	262.278	261.949	261.745	261.507	261.569	261.554	14
15	261.701	261.681	261.690	261.879	262.453	262.396	262.266	261.953	261.748	261.575	261.568	261.552	15
16	261.701	261.682	261.703	261.884	262.471	262.395	262.276	261.948	261.751	261.605	261.567	261.547	16
17	261.698	261.685	261.703	261.893	262.481	262.380	262.252	261.941	261.729	261.597	261.564	261.549	17
18	261.700	261.681	261.698	261.902	262.493	262.366	262.239	261.943	261.676	261.617	261.561	261.548	18
19	261.698	261.684	261.701	261.909	262.523	262.346	262.229	261.925	261.718	261.616	261.562	261.544	19
20	261.696	261.690	261.699	261.924	262.556	262.335	262.232	261.913	261.745	261.598	261.556	261.537	20
21	261.696	261.689	261.699	261.937	262.584	262.317	262.222	261.907	261.724	261.603	261.557	261.539	21
22	261.694	261.681	261.694	261.954	262.598	262.327	262.209	261.914	261.708	261.615	261.554	261.539	22
23	261.695	261.679	261.693	261.972	262.616	262.318	262.207	261.880	261.695	261.561	261.551	261.540	23
24	261.693	261.674	261.693	261.990	262.629	262.308	262.207	261.881	261.681	261.593	261.555	261.539	24
25	261.692	261.679	261.693	262.022	262.630	262.294	262.206	261.893	261.690	261.596	261.559	261.542	25
26	261.688	261.685A	261.692	262.053	262.625	262.293	262.195	261.889	261.651	261.583	261.562	261.544	26
27	261.682	261.683E	261.692	262.073	262.630	262.309	262.171	261.861	261.689	261.566	261.558	261.545	27
28	261.682	261.682A	261.693	262.105	262.642	262.293	262.134	261.856	261.692	261.602	261.558	261.541	28
29	261.682		261.696	262.128	262.615	262.301	262.140	261.849	261.671	261.551	261.560	261.537	29
30	261.681		261.697	262.134	262.601	262.297	262.092	261.862	261.662	261.615	261.558	261.536	30
31	261.678		261.695		262.589		262.110	261.788		261.606		261.541	31
MEAN	261.696	261.682	261.690	261.897	262.438	262.409	262.253	261.954	261.745	261.596	261.566	261.546	MEAN
MAX	261.704	261.690	261.703	262.134	262.642	262.593	262.358	262.101	261.855	261.696	261.603	261.557	MAX
MIN	261.678	261.674	261.679	261.694	262.145	262.293	262.092	261.788	261.651	261.483	261.551	261.537	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 261.874
MAXIMUM DAILY, 262.642 ON MAY 28
MINIMUM DAILY, 261.483 ON OCT 11
MAXIMUM INSTANTANEOUS,
262.763 AT 18:19 CST ON MAY 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 53 40 N
LONG 101 27 50 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
14 200 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1913 ADJ.)

RED DEER RIVER NEAR THE MOUTH - STATION NO. 05LC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.26B	3.10B	2.35B	5.35B	31.1	67.0	46.2	29.4	15.5	8.29	4.93	1.80 B	1
2	5.21B	3.01B	2.41B	5.60B	31.3	64.1	43.5	31.5	11.7	4.97	6.10	1.70 B	2
3	5.14B	2.95B	2.50B	6.47B	32.3	63.8	40.1	33.3	14.9	12.4	4.68	1.61 B	3
4	5.05B	2.89B	2.47B	7.47B	36.6	58.6	44.8	26.8	14.6	18.0	3.05	1.52 B	4
5	4.99B	2.80B	2.44B	8.54B	39.2	62.5	46.8	27.3	14.0	7.91	4.13	1.48 B	5
6	4.93B	2.74B	2.41B	9.83B	39.1	61.3	45.2	26.2	12.8	9.58	4.09B	1.45 B	6
7	4.84B	2.68B	2.38B	11.2 B	47.4	57.7	47.8	25.1	12.6	7.40	4.00B	1.41 B	7
8	4.78B	2.59B	2.56B	12.6 B	47.5	58.4	50.1	28.4	13.7	6.47	3.90B	1.37 B	8
9	4.72B	2.53B	2.71B	14.0 B	49.9	57.6	47.9	25.7	13.6	6.02	3.81B	1.33 B	9
10	4.63B	2.44B	2.89B	15.7 B	54.2	53.2	45.8	23.0	11.8	6.52	3.72B	1.30 B	10
11	4.57B	2.38B	3.07B	17.6 B	56.5	54.5	46.2	22.7	12.0	15.4	3.63B	1.26 B	11
12	4.48B	2.32B	3.22B	16.6 B	57.7	53.7	47.5	22.7	8.07	7.17	3.54B	1.22 B	12
13	4.42B	2.23B	3.40B	16.2 B	59.0	54.5	46.6	24.6	11.5	7.17	3.45B	1.19 B	13
14	4.36B	2.18B	3.58B	15.3	59.9	51.8	49.2	23.6	10.9	6.77	3.35B	1.15 B	14
15	4.27B	2.13B	3.73B	15.0	59.3	51.2	48.7	20.0	11.1	8.27	3.26B	1.11 B	15
16	4.21B	2.05B	3.91B	14.9	64.1	49.4	44.6	20.0	9.09	7.12	3.17B	1.08 B	16
17	4.15B	2.00B	4.06B	15.5	63.9	49.3	46.4	19.6	7.94	6.35	3.08B	1.04 B	17
18	4.06B	1.95B	4.24B	16.6	65.4	48.6	45.2	17.3	14.5	4.49	2.99B	1.00 B	18
19	4.00B	1.88B	4.42B	18.4	68.2	48.9	43.6	17.2	10.4	2.35	2.90B	0.964B	19
20	3.94B	1.83B	4.57B	18.9	71.7	48.5	42.2	17.8	8.87	5.96	2.80B	0.927B	20
21	3.85B	1.88B	4.75B	20.2	72.5	47.8	39.6	17.5	9.98	5.60	2.71B	0.890B	21
22	3.79B	1.92B	4.72B	21.3	74.3	44.8	39.0	16.7	9.87	4.64	2.62B	0.853B	22
23	3.73B	2.00B	4.69B	23.8	73.8	41.5	37.9	18.7	9.26	6.07	2.53B	0.816B	23
24	3.64B	2.05B	4.69B	25.2	72.0	43.0	37.1	18.8	10.6	5.85	2.44B	0.779B	24
25	3.56B	2.10B	4.66B	26.3	73.3	43.3	34.0	18.2	9.59	4.20	2.35B	0.741B	25
26	3.52B	2.15B	4.63B	26.7	74.2	39.9	32.7	17.0	11.7	5.65	2.25B	0.704B	26
27	3.43B	2.20B	4.60B	27.5	71.9	40.3	33.2	18.2A	10.9	8.10	2.16B	0.667B	27
28	3.37B	2.26B	4.66B	28.5	67.4	45.8	39.4	17.5	8.05	3.31	2.07B	0.630B	28
29	3.31B		4.72B	29.9	67.0	43.8	34.9	16.6	7.20	6.61	1.98B	0.593B	29
30	3.22B		4.90B	30.7	60.1	45.1	33.3	15.2	7.17	4.83	1.89B	0.556B	30
31	3.16B		5.05B		67.6		31.6	20.0		3.94		0.519B	31
TOTAL	130.61	65.24	115.39	521.86	1 810.4	1 550.1	1 311.1	678.8	333.89	217.41	97.58	33.659	TOTAL
MEAN	4.21	2.33	3.72	17.4	58.4	51.7	42.3	21.9	11.1	7.01	3.25	1.09	MEAN
MAX	5.26	3.10	5.05	30.7	74.3	67.0	50.1	33.3	15.5	18.0	6.10	1.80	MAX
MIN	3.16	1.83	2.35	5.35	31.1	39.9	31.6	15.2	7.17	2.35	1.89	0.519	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.8
MAXIMUM DAILY, 74.3 ON MAY 22
MINIMUM DAILY, 0.519B ON DEC 31
MAXIMUM INSTANTANEOUS,
75.8 AT 02:54 CST ON MAY 27

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 45 N
LONG 101 02 35 W
DRAINAGE AREA, 14 500 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	11 300	JUL	113 000
FEB	5 640	AUG	58 600
MAR	9 970	SEP	28 800
APR	45 100	OCT	18 800
MAY	156 000	NOV	8 430
JUN	134 000	DEC	2 910

TOTAL DISCHARGE, 593 000 dam³

RED RIVER ABOVE FLOODWAY CONTROL STRUCTURE - STATION NO. 05OC021

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	222.001A	223.499	223.439	223.689	223.725	---	---	---	---	---	1
2	---	---	221.998E	223.978	223.518	223.893	223.724	---	---	---	---	---	2
3	---	---	221.994E	224.485	223.565	223.931	223.745	---	---	---	---	---	3
4	---	---	221.991E	224.823	223.620	223.835	223.735	---	---	---	---	---	4
5	---	---	221.987E	225.009	223.661	223.761	223.727	---	---	---	---	---	5
6	---	---	221.984E	224.985	223.637	223.765	223.718	---	---	---	---	---	6
7	---	---	221.980E	224.880	223.668	223.817	223.729	---	---	---	---	---	7
8	---	---	221.977A	224.865	223.702	223.886	223.709	---	---	---	---	---	8
9	---	---	221.958E	224.867	223.707	223.894	223.707A	---	---	---	---	---	9
10	---	---	221.938E	224.815	223.692	223.914	---	---	---	---	---	---	10
11	---	---	221.919E	224.741	223.754	223.949	---	---	---	---	---	---	11
12	---	---	221.899E	224.619	223.763	223.883	---	---	---	---	---	---	12
13	---	---	221.880E	224.544	223.733	223.894	---	---	---	---	---	---	13
14	---	---	221.860A	224.523	223.731	223.915	---	---	---	---	---	---	14
15	---	---	221.887E	224.534	223.718	223.917	---	---	---	---	---	---	15
16	---	---	221.915E	224.522	223.735	223.896	---	---	---	---	---	---	16
17	---	---	221.942A	224.411	223.717	223.825	---	---	---	---	---	---	17
18	---	---	222.137E	224.344	223.692	223.776	---	---	---	---	---	---	18
19	---	---	222.332E	224.151	223.702	223.759	---	---	---	---	---	---	19
20	---	---	222.527A	223.838	223.716	223.779	---	---	---	---	---	---	20
21	---	---	222.629	223.515	223.722	223.777	---	---	---	---	---	---	21
22	---	---	222.759	223.272	223.723	223.785	---	---	---	---	---	---	22
23	---	---	222.950	223.040	223.723	223.787	---	---	---	---	---	---	23
24	---	---	223.094A	222.879	223.723	223.766	---	---	---	---	---	---	24
25	---	---	223.151E	222.761	223.741	223.763	---	---	---	---	---	---	25
26	---	---	223.170E	222.719	223.726	223.762	---	---	---	---	---	---	26
27	---	---	223.133A	222.816	223.704	223.764	---	---	---	---	---	---	27
28	---	---	223.076	223.054	223.702	223.789	---	---	---	---	---	---	28
29	---		223.015	223.199	223.718	223.778	---	---	---	---	---	---	29
30	---		222.984	223.317	223.701	223.760	---	---	---	---	---	---	30
31	---		223.136		223.679		---	---		---		---	31
MEAN	---	---	222.361	224.034	223.688	223.824	---	---	---	---	---	---	MEAN
MAX	---	---	223.170	225.009	223.763	223.949	---	---	---	---	---	---	MAX
MIN	---	---	221.860	222.719	223.439	223.689	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 225.009 ON APR 05
MINIMUM DAILY, 221.860A ON MAR 14
MAXIMUM INSTANTANEOUS,
225.041 AT 13:36 CST ON APR 05

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 45 10 N
LONG 097 08 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
119 000 km²

RED RIVER AT EMERSON - STATION NO. 05OC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4.07B	6.56B	7.43B	98.0B	46.5	40.8	61.1	20.6	10.6	8.87	8.53	7.98B	1
2	3.91B	6.68B	7.49B	111 B	46.7	41.6	57.4	20.5	10.6	8.63	8.41	7.91B	2
3	4.30B	6.89B	7.55B	115 B	47.4	41.9	55.5	19.0	11.2	8.56	8.30	7.88B	3
4	4.51B	7.19B	7.68B	128 B	48.5	42.1	52.0	17.5	12.1	8.49	8.48B	7.94B	4
5	4.46B	7.51B	7.83B	129 B	50.9	45.4	49.4	16.0	12.0	8.44	8.81B	7.97B	5
6	4.41B	7.71B	8.00B	134 B	52.5	55.6	47.7	14.8	12.2	8.88	9.02B	7.90B	6
7	4.32B	7.82B	8.17B	141 B	53.6	69.7	46.1	13.8	12.3	8.98	8.85B	7.72B	7
8	4.19B	7.91B	8.33B	148 B	53.8	80.5	45.2	12.8	11.9	9.05	8.47B	7.40B	8
9	4.24B	7.90B	8.67B	152 B	53.6	83.6	43.7	12.4	11.8	9.17	8.72B	7.01B	9
10	4.31B	7.87B	9.11B	155 B	52.9	81.7	42.4	11.9	11.4	9.01	8.68B	6.74B	10
11	4.52B	7.81B	9.29B	151 B	51.9	76.6	41.1	11.6	11.2	8.92	8.52B	6.49B	11
12	4.64B	7.73B	10.2 B	147 B	50.5	70.7	38.6	11.6	11.1	8.62	8.55B	6.32B	12
13	4.79B	7.65B	12.4 B	146 B	49.5	65.7	35.6	11.7	10.4	8.16	8.59B	6.20B	13
14	4.82B	7.52B	12.9 B	141 B	48.2	62.4	32.5	11.7	9.97	8.19	8.86B	6.17B	14
15	4.71B	7.21B	14.7 B	131 B	47.0	63.6	30.2	11.0	9.79	8.08	9.22B	6.20B	15
16	4.65B	6.90B	19.1 B	122 B	45.9	63.2	28.6	10.3	9.83	8.03	9.08B	6.20B	16
17	4.72B	6.80B	20.8 B	105 B	43.8	61.9	27.7	10.2	9.63	8.13	9.15B	6.25B	17
18	4.85B	7.08B	28.2 B	92.1B	43.1	60.6	27.0	10.5	9.96	7.79	9.01B	6.23B	18
19	4.79B	7.38B	37.7 B	80.6	42.5	59.2	26.7	11.0	9.28	7.69	9.21B	6.18B	19
20	4.72B	7.50B	50.8 B	68.6	42.0	57.0	26.5	12.6	8.30	8.10	9.90B	6.17B	20
21	4.72B	7.48B	65.4 B	61.9	42.3	55.5	24.9	13.3	8.04	8.15	11.0 B	6.17B	21
22	4.75B	7.46B	75.8 B	57.2	42.9	56.9	23.5	13.1	7.93	8.17	10.6 B	6.13B	22
23	4.92B	7.53B	77.2 B	53.7	44.3	56.9	21.9	12.5	8.00	8.43	9.12B	6.09B	23
24	5.18B	7.52B	73.1 B	50.9	45.6	55.8	20.7	12.8	8.99	8.21	7.39B	6.04B	24
25	5.40B	7.42B	67.4 B	49.0	46.1	59.7	19.9	12.6	10.0	8.19	8.26B	5.99B	25
26	5.64B	7.36B	61.2 B	47.1	46.1	66.5	19.5	12.8	10.6	8.67	9.21B	5.92B	26
27	5.87B	7.31B	56.8 B	45.7	46.0	70.9	19.6	12.8	11.2	8.79	9.63B	5.85B	27
28	6.01B	7.30B	53.8 B	45.8	45.4	71.4	20.1	12.2	11.0	8.21	9.26B	5.79B	28
29	6.20B		52.8 B	46.4	44.5	68.8	20.7	11.5	10.2	8.40	8.37B	5.72B	29
30	6.31B		56.6 B	46.6	43.3	65.1	21.1	11.1	9.31	8.73	8.07B	5.64B	30
31	6.47B		70.9 B		42.0		21.2	10.9		8.41		5.57B	31
TOTAL	151.40	207.00	1 007.35	2 999.6	1 459.3	1 850.6	1 046.0	408.0	310.83	262.15	267.27	203.77	TOTAL
MEAN	4.88	7.39	32.5	100	47.1	61.7	33.7	13.2	10.4	8.46	8.91	6.57	MEAN
MAX	6.47	7.91	77.2	155	53.8	83.6	61.1	20.6	12.1	9.17	11.0	7.98	MAX
MIN	3.91	6.56	7.43	45.7	42.0	40.8	19.5	10.3	7.93	7.69	7.39	5.57	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 27.9
MAXIMUM DAILY, 155B ON APR 10
MINIMUM DAILY, 3.91B ON JAN 02
MAXIMUM INSTANTANEOUS,
156 AT 01:45 CST ON APR 10

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 30 N
LONG 097 12 40 W
DRAINAGE AREA, 102 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	13 100	JUL	90 400
FEB	17 900	AUG	35 300
MAR	87 000	SEP	26 900
APR	259 000	OCT	22 600
MAY	126 000	NOV	23 100
JUN	160 000	DEC	17 600

TOTAL DISCHARGE, 879 000 dam³

RED RIVER AT JAMES AVENUE PUMPING STATION - STATION NO. 05OJ015

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	221.250	221.281	221.431	222.489	223.358	223.646	223.605	223.635	223.596	223.636	221.851	221.132	1
2	221.255	221.282	221.440	222.801	223.431	223.768	223.616	223.610	223.591	223.590	221.761	221.129	2
3	221.267	221.282	221.428	223.246	223.488	223.706	223.639	223.610	223.580	223.583	221.644	221.126	3
4	221.276	221.276	221.410	223.614	223.541	223.652	223.622	223.613	223.586	223.585	221.534	221.129	4
5	221.279	221.272	221.396	223.754	223.576	223.616	223.619	223.642	223.613	223.610	221.434	221.287	5
6	221.274	221.277	221.389	223.786	223.553	223.649	223.621	223.634	223.641	223.633	221.333	221.305	6
7	221.265	221.281	221.378	223.803	223.585	223.694	223.640	223.614	223.665	223.622	221.204	221.301	7
8	221.268	221.292	221.351	223.834	223.610	223.709	223.607	223.587	223.660	223.615	221.113	221.278	8
9	221.269	221.304	221.338	223.875	223.593	223.675	223.610	223.570	223.662	223.614	221.063A	221.231	9
10	221.269	221.313	221.335	223.822	223.610	223.688	223.624	223.576	223.649	223.628	---	221.198	10
11	221.284	221.320	221.302	223.700	223.672	223.716	223.631	223.588	223.650	223.614	---	221.187	11
12	221.283	221.329	221.375	223.599	223.677	223.634	223.636	223.583	223.652	223.624	---	221.192	12
13	221.270	221.340	221.491	223.470	223.649	223.653	223.629	223.585	223.632	223.611	---	221.233	13
14	221.266	221.338	221.453	223.459	223.651	223.651	223.637	223.585	223.634	223.603	---	221.270	14
15	221.264	221.333	221.465	223.491	223.653	223.671	223.614	223.631	223.627	223.583	221.062A	221.264	15
16	221.272	221.335	221.501	223.529	223.655	223.656	223.606	223.663	223.630	223.510	221.063	221.243	16
17	221.281	221.338	221.506	223.564	223.609	223.611	223.609	223.693	223.634	223.426	221.071	221.240	17
18	221.280	221.337	221.600	223.630	223.626	223.603	223.632	223.647	223.653	223.341	221.103	221.554	18
19	221.272	221.346	221.634	223.680	223.642	223.612	223.612	223.640	223.628	223.220	221.125	221.309	19
20	221.254	221.359	221.673	223.374	223.658	223.639	223.621	223.634	223.634	223.076	221.143	221.379	20
21	221.247	221.360	221.742	223.115	223.663	223.628	223.624	223.634	223.620	222.960	221.186	221.378	21
22	221.257	221.366	221.855	222.893	223.660	223.649	223.619	223.657	223.596	222.867	221.117A	221.351	22
23	221.270	221.384	222.073	222.662	223.662	223.648	223.636	223.671	223.625	222.784	221.061A	221.330	23
24	221.280	221.391	222.176	222.485	223.666	223.636	223.632	223.660	223.615	222.665	221.198	221.319	24
25	221.281	221.391	222.239	222.360	223.680	223.641	223.629	223.652	223.628	222.551	221.199	221.315	25
26	221.272	221.398	222.250	222.403	223.663	223.638	223.617	223.650	223.640	222.448	221.156	221.310	26
27	221.263	221.410	222.225	222.617	223.636	223.641	223.616	223.647	223.626	222.350	221.127	221.305	27
28	221.251	221.420	222.176	222.939	223.637	223.657	223.611	223.637	223.644	222.271	221.121	221.316	28
29	221.245		222.126	223.110	223.663	223.633	223.623	223.617	223.656	222.159	221.134	221.339	29
30	221.269		222.118	223.225	223.649	223.615	223.657	223.595	223.652	222.050	221.138	221.339	30
31	221.278		222.229		223.642		223.657	223.600		221.937		221.337	31
MEAN	221.268	221.334	221.681	223.278	223.615	223.655	223.624	223.624	223.631	223.154	---	221.274	MEAN
MAX	221.284	221.420	222.250	223.875	223.680	223.768	223.657	223.683	223.665	223.636	---	221.379	MAX
MIN	221.245	221.272	221.302	222.360	223.358	223.603	223.605	223.570	223.580	221.937	---	221.132	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 223.875 ON APR 09
MINIMUM DAILY, 221.061A ON NOV 23
MAXIMUM INSTANTANEOUS,
223.921 AT 18:40 CST ON APR 09

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 45 N
LONG 097 07 50 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
276 000 km²

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	13.9B	14.2B	21.7B	141 B	87.5	103	110	50.8	23.0	39.0	53.2	19.4B	1
2	13.7B	14.3B	21.7B	168 B	87.9	110	104	48.0	23.6	34.1	52.2	21.0B	2
3	13.6B	14.3B	21.4B	270 B	88.3	122	103	46.5	22.1	26.5	51.7	25.4B	3
4	13.5B	13.9B	21.2B	334 B	114	136	102	46.6	21.5	20.0	51.0	26.0B	4
5	13.4B	13.7B	22.4B	367 B	166	134	102	45.9	23.0	21.0	50.4	25.5B	5
6	13.5B	13.4B	22.8B	372 B	159	134	102	44.4	22.7	23.2	47.0	24.8B	6
7	13.8B	13.5B	22.8B	371 B	156	140	99.0	42.0	22.8	23.5	42.6	24.1B	7
8	14.5B	13.7B	23.0B	375 B	147	170	98.4	38.8	24.9	21.0	35.0	23.9B	8
9	15.4B	13.9B	23.4B	378 B	137	185	98.3	37.9	25.7	20.1	27.4	23.4B	9
10	16.3B	13.9B	23.6B	377 B	130	192	98.3	36.6	24.6	19.9	29.5	22.9B	10
11	16.6B	14.4B	23.9B	367 B	127	191	98.2	36.6	21.9	18.8	30.3	22.2B	11
12	16.8B	14.5B	24.5B	364 B	120	192	100	34.6	22.0	20.5	27.5	21.9B	12
13	17.0B	14.7B	25.3B	362	121	196	99.9	33.9	22.0	19.6	29.6	21.8B	13
14	17.1B	14.8B	26.5B	360	118	195	95.8	31.4	21.1	21.0	26.4	21.7B	14
15	17.2B	14.8B	29.1B	362	114	183	90.7	33.4	19.9	29.2	27.5	21.5B	15
16	17.3B	15.3B	38.9B	366	106	158	87.0	32.7	21.8	48.0	27.7	21.2B	16
17	17.2B	15.2B	52.6B	360	107	146	83.7	35.9	19.1	49.3	28.9	20.9B	17
18	16.9B	15.0B	66.4B	365	109	133	81.7	37.3	17.5	50.0	29.2	21.0B	18
19	15.8B	17.0B	54.7B	362	111	126	78.9	33.4	24.5	48.7	29.3	21.1B	19
20	14.5B	16.1B	56.0B	359	113	121	76.3	30.2	25.5	48.5	30.0	21.5B	20
21	13.6B	15.9B	64.8B	325	114	120	73.8	28.7	28.7	46.9	28.6	21.7B	21
22	13.7B	17.0B	81.6B	265	113	124	71.2	27.7	27.4	46.4	30.8	21.9B	22
23	13.7B	17.6B	94.2B	230	111	127	68.1	28.1	24.8	46.4	65.3	21.9B	23
24	13.7B	18.3B	103 B	195	108	123	64.9	27.5	19.8	45.2	50.4	21.8B	24
25	13.7B	18.8B	115 B	165	106	120	61.1	38.9	23.0	45.1	35.4	21.7B	25
26	13.8B	19.3B	120 B	115	105	117	57.5	38.8	29.3	44.6	28.9B	21.7B	26
27	13.8B	20.1B	120 B	78.1	99.3	117	54.5	37.5	32.2	44.4	26.0B	21.8B	27
28	13.8B	21.1B	113 B	79.2	99.9	120	52.6	35.2	35.5	44.5	23.3B	22.0B	28
29	13.9B		106 B	82.0	101	120	51.0	31.5	39.8	46.0	19.7B	22.0B	29
30	13.8B		104 B	85.0	104	117	51.9	28.6	42.0	48.4	18.5B	22.0B	30
31	14.0B		106 B		104		52.1	24.4		49.8		21.9B	31
TOTAL	459.5	439.5	1 739.5	8 427.3	3 583.9	4 275	2 567.9	1 133.8	751.4	1 109.3	1 073.3	691.6	TOTAL
MEAN	14.8	15.7	56.1	281	116	143	82.8	36.6	25.0	35.8	35.8	22.3	MEAN
MAX	17.3	21.1	120	378	166	196	110	50.8	42.0	50.0	65.3	26.0	MAX
MIN	13.4	13.4	21.2	78.1	87.5	103	51.0	24.4	17.5	18.8	18.5	19.4	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 71.9
MAXIMUM DAILY, 378B ON APR 09
MINIMUM DAILY, 13.4B ON JAN 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 28 N
LONG 096 55 54 W
DRAINAGE AREA, 278 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	39 700	JUL	222 000
FEB	38 000	AUG	98 000
MAR	150 000	SEP	64 900
APR	728 000	OCT	95 600
MAY	310 000	NOV	92 700
JUN	369 000	DEC	59 800

TOTAL DISCHARGE, 2 270 000 dam³

REMARKS - THESE DATA ARE A SUMMATION FROM SEVEN UPSTREAM FLOW STATIONS

RED RIVER NEAR ST. ADOLPHE - STATION NO. 05OC803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	223.336E	223.777E	223.827E	---	223.582E	223.595	222.105E	---	1
2	---	---	---	---	223.349	223.824E	223.830E	---	223.576E	223.612E	222.099E	---	2
3	---	---	---	---	223.392E	223.871E	223.833	---	223.574	223.629	222.093	---	3
4	---	---	---	---	223.635	223.918	223.835	---	223.591E	223.635E	222.091E	---	4
5	---	---	---	---	223.665E	223.888E	223.844E	---	223.607	223.641	222.089	---	5
6	---	---	---	---	223.696E	223.857	223.852E	---	223.638E	223.645E	222.095E	---	6
7	---	---	---	---	223.726	223.967E	223.860	---	223.668	223.650E	222.100E	---	7
8	---	---	---	---	223.729E	224.077	223.812E	---	223.656E	223.655E	222.105E	---	8
9	---	---	---	225.720	223.732	224.138E	223.763	---	223.644E	223.659	222.111	---	9
10	---	---	---	---	223.813E	224.199E	223.793E	---	223.632E	223.687	222.118E	---	10
11	---	---	---	---	223.894	224.260	223.824	---	223.620	223.645E	222.125E	---	11
12	---	---	---	---	223.848E	224.223E	223.787E	---	223.624E	223.604	222.132	---	12
13	---	---	---	225.546	223.802E	224.186E	223.751	223.504	223.628E	223.576E	222.128E	---	13
14	---	---	---	225.513E	223.757	224.150	223.726E	223.553E	223.632	223.547E	222.124E	---	14
15	---	---	---	225.481E	223.738E	224.126	223.702E	223.601	223.596E	223.519	222.120	---	15
16	---	---	---	225.448	223.720	224.055E	223.677	223.642E	223.561E	223.461E	---	---	16
17	---	---	---	225.205E	223.709E	223.985E	223.696E	223.684	223.525	223.403	---	---	17
18	---	---	---	224.961	223.699	223.915E	223.714	223.647E	223.578E	223.284E	---	---	18
19	---	---	---	224.522E	223.698E	223.845	223.696E	223.610E	223.632	223.165	---	---	19
20	---	---	---	224.083	223.697E	223.857E	223.677	223.574	223.644E	223.063E	---	---	20
21	---	---	---	223.798E	223.696	223.870	223.670E	223.586E	223.656	222.961E	---	---	21
22	---	---	---	223.514E	223.706E	223.894	223.663E	223.598	223.653E	222.858E	---	---	22
23	---	---	---	223.229	223.717	223.876E	223.656	223.623E	223.650E	222.756E	---	---	23
24	---	---	---	223.065E	223.737E	223.857E	---	223.647	223.647E	222.653	---	---	24
25	---	---	---	222.900	223.757	223.839	---	223.647E	223.644	222.705E	---	---	25
26	---	---	---	222.920E	223.745E	223.848E	---	223.647E	223.644E	222.757	---	---	26
27	---	---	---	222.940	223.732E	223.857	---	223.647	223.644	222.628E	---	---	27
28	---	---	---	223.001E	223.720	223.839E	---	223.617E	223.638E	222.499E	---	---	28
29	---		---	223.062E	223.702E	223.821	---	223.586	223.632	222.369E	---	---	29
30	---		---	223.123	223.684	223.824E	---	223.586E	223.613E	222.240E	---	---	30
31	---		---		223.730E		---	223.586		222.111		---	31
MEAN	---	---	---	---	223.708	223.955	---	---	223.621	223.200	---	---	MEAN
MAX	---	---	---	---	223.894	224.260	---	---	223.668	223.687	---	---	MAX
MIN	---	---	---	---	223.336	223.777	---	---	223.525	222.111	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 40 50 N
LONG 097 06 52 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
118 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.56B	5.04B	7.01B	99.7B	52.1E	49.6	67.7	21.9	9.57	11.5	7.28	7.80B	1
2	3.40B	5.04B	7.08B	149 B	55.0A	58.2	64.8	21.2	8.08	8.66	7.40	7.72B	2
3	3.27B	5.08B	7.19B	200 B	57.7	66.6	64.4	21.8	7.32	8.12	7.14	7.48B	3
4	3.19B	5.16B	7.30B	238 B	53.8	63.1	63.8	21.8	9.71	8.17	7.24	7.37B	4
5	3.06B	5.23B	7.41B	267 B	55.1	58.2	62.5	20.1	8.96	10.4	7.47	7.28B	5
6	2.99B	5.41B	7.49B	283 B	55.5	59.5	61.0	17.8 A	13.3	11.7	7.50	7.81B	6
7	3.03B	5.69B	7.54B	294 B	56.8	65.3	60.2	15.2	12.8	10.3	7.55B	7.91B	7
8	3.14B	6.04B	7.59B	312 B	58.3	74.9	59.0	14.7	13.9	9.00A	7.45B	8.65B	8
9	3.34B	6.32B	7.78B	320 B	58.8	84.3	58.3	13.9 A	13.6	9.01A	7.40B	8.79B	9
10	3.53B	6.57B	7.94B	321 B	58.8	91.9	58.9	13.8 A	11.5	7.19A	7.45B	8.18B	10
11	3.77B	6.77B	8.30B	320 B	58.9	91.4	60.1	11.6	11.5	8.77	7. 0B	7.33B	11
12	3.78B	6.80B	8.89B	311 B	58.9	90.2	58.1	10.6	12.9	9.42	7.45B	6.84B	12
13	4.08B	6.94B	9.57B	310 B	57.4	88.7	55.8	8.23	12.7	9.49	7.55B	6.11B	13
14	4.29B	6.90B	10.4 B	314 B	56.6	90.3	53.9	10.9	11.4	9.56	7.85B	5.47B	14
15	4.37B	6.92B	13.8 B	305 B	55.0	92.0	48.5	10.5	13.3	8.87	7.95B	5.08B	15
16	4.30B	6.80B	19.2 B	275 B	54.3	87.1	44.6	14.1	11.1	8.80A	8.05B	4.79B	16
17	4.21B	6.68B	24.9 B	219 B	54.1	79.3	42.0	17.0	9.02	9.02A	8.20B	4.65B	17
18	4.19B	6.39B	29.2 B	175 B	52.2	72.9	39.8	14.2	11.8	8.55A	8.35B	4.51B	18
19	4.21B	6.00B	33.9 B	139 E	51.1	68.6	37.6	11.7	10.9	7.78A	8.95B	4.55B	19
20	4.20B	5.89B	40.4 B	110 A	50.7	67.9	36.1	10.7	10.5	8.27A	9.89	4.45B	20
21	4.26B	5.94B	49.0 B	90.3	50.8	69.0	35.1	9.89	11.8	8.12A	9.38	4.30B	21
22	4.27B	6.07B	59.4 B	78.7	51.5	68.4	32.9	10.3	12.2	7.49E	6.26B	4.20B	22
23	4.28B	6.31B	68.8 B	70.7	51.9	67.5	30.8	11.8	8.83	7.04E	7.91B	4.13B	23
24	4.26B	6.42B	74.7 B	64.7	52.4	66.7	28.7	12.6	10.4	7.12A	7.48B	4.07B	24
25	4.26B	6.52B	75.7 B	60.7A	53.4	66.0	27.1	13.4	10.9	7.20	6.46B	4.00B	25
26	4.41B	6.74B	73.1 B	57.9E	53.8	66.4	25.4	13.7	11.8	6.91	6.89B	3.96B	26
27	4.47B	6.97B	68.9 B	55.6E	53.3	69.1	24.2	12.8	11.4	6.88	6.38B	3.87B	27
28	4.50B	6.97B	65.2 B	54.1E	53.1	72.1	23.3	12.1	12.2	8.02	6.81B	3.78B	28
29	4.60B		62.7 B	53.3E	53.7	72.8	24.5	10.9	12.7	7.58	7.54B	3.67B	29
30	4.83B		62.8 B	52.5E	51.7	71.1	24.7	9.28	11.8	7.78	7.74B	3.64B	30
31	4.96B		71.1 B		49.9		23.8	8.77		7.77		3.53B	31
TOTAL	123.01	173.61	1 004.19	5 600.2	1 678.1	2 189.1	1 396.6	427.27	337.89	264.49	228.37	175.92	TOTAL
MEAN	3.97	6.20	32.4	187	54.1	73.0	45.1	13.8	11.3	8.53	7.61	5.67	MEAN
MAX	4.96	6.97	75.7	321	58.9	92.0	67.7	21.9	13.9	11.7	9.89	8.79	MAX
MIN	2.99	5.04	7.01	52.5	49.9	49.6	23.3	8.23	7.32	6.88	6.26	3.53	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 37.2
MAXIMUM DAILY, 321B ON APR 10
MINIMUM DAILY, 2.99B ON JAN 06

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 40 N
LONG 097 10 52 W
DRAINAGE AREA, 115 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	10 600	JUL	121 000
FEB	15 000	AUG	36 900
MAR	86 800	SEP	29 200
APR	484 000	OCT	22 900
MAY	145 000	NOV	19 700
JUN	189 000	DEC	15 200

TOTAL DISCHARGE, 1 180 000 dam³

RED SUCKER LAKE AT RED SUCKER LAKE - STATION NO. 04AC008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	29.962	29.893	29.820	29.747	29.869	30.444E	30.455	30.397	30.245	30.104	29.970	29.955	1
2	29.962	29.889	29.816	29.742	29.877	30.446E	30.450	30.393	30.237	30.090	29.982	29.954	2
3	29.961	29.886	29.809	29.740	29.881	30.445E	30.440	30.390	30.235	30.093	29.989	29.947	3
4	29.956	29.885	29.806	29.747	29.889	30.449E	30.438	30.379	30.227	30.090	29.984	29.944	4
5	29.953	29.881	29.802	29.743	29.900	30.452E	30.438	30.371	30.222	30.077	29.978	29.953	5
6	29.951	29.881	29.799	29.738	29.912	30.454E	30.428	30.366	30.207	30.069	29.983	29.950	6
7	29.953	29.878	29.797	29.732	29.931	30.457E	30.427	30.361	30.208A	30.065	29.976	29.949	7
8	29.949	29.876	29.795	29.732	29.952	30.458A	30.436	30.357	30.202A	30.061	29.976	29.949	8
9	29.946	29.872	29.792	29.731	29.975	30.456	30.438	30.344	30.189	30.054	29.980	29.953	9
10	29.946	29.873	29.788	29.727	29.995	30.454	30.434	30.337	30.176	30.055	29.980	29.947	10
11	29.950	29.868	29.782	29.724	30.019	30.461	30.431	30.326	30.169	30.060	29.982	29.944	11
12	29.944	29.866	29.782	29.720	30.042	30.478	30.429	30.320	30.162A	30.044	29.966	29.940	12
13	29.940	29.868	29.776	29.720	30.069	30.476	30.426	30.318	30.159	30.037	29.959	29.939	13
14	29.936	29.862	29.776	29.717	30.086	30.476	30.420	30.328	30.164	30.037	29.958	29.941	14
15	29.933	29.858	29.772	29.713	30.121	30.489	30.411	30.318	30.157	30.034	29.959	29.936	15
16	29.931	29.855	29.793	29.714	30.150	30.487	30.414A	30.312	30.154	30.027	29.954	29.934	16
17	29.928	29.851	29.797	29.710	30.183	30.482	30.416E	30.300	30.150	30.016	29.950	29.933	17
18	29.927	29.850	29.795	29.705	30.211	30.480	30.416E	30.288	30.151	30.012	29.952	29.928	18
19	29.922	29.847	29.789	29.703	30.234	30.481	30.415E	30.281	30.140	30.000	29.947	29.924	19
20	29.920	29.844	29.788	29.700	30.263	30.484	30.412E	30.279	30.128	30.012	29.950	29.920	20
21	29.920	29.846	29.784	29.698	30.285	30.482	30.407E	30.274	30.125	30.013	29.949	29.918	21
22	29.922	29.839	29.781	29.699	30.310	30.478	30.404E	30.263	30.131	30.002	29.961	29.915	22
23	29.918	29.833	29.778	29.705	30.332	30.478	30.400A	30.267	30.130	30.000	29.967	29.917	23
24	29.916	29.829	29.776	29.732	30.355	30.473	30.403	30.265	30.125	29.999	29.964	29.912	24
25	29.912	29.825	29.777	29.758	30.370	30.461	30.397	30.270A	30.126	29.997	29.963	29.909	25
26	29.909	29.826	29.769	29.791	30.383	30.459	30.391	30.262A	30.127	29.994	29.959	29.906	26
27	29.912	29.822	29.761	29.807	30.397A	30.453	30.388	30.258	30.119	29.983	29.957	29.903	27
28	29.906	29.819	29.756	29.819	30.407E	30.449	30.395	30.258	30.112	29.984	29.957	29.906	28
29	29.902		29.754	29.849	30.415E	30.455	30.406	30.247	30.109	29.988	29.955	29.901	29
30	29.901		29.752A	29.858	30.425E	30.454	30.403	30.241	30.104	29.977	29.956	29.897	30
31	29.896		29.749		30.435E		30.399	30.238		29.969		29.895	31
MEAN	29.932	29.858	29.784	29.741	30.151	30.465	30.418	30.310	30.163	30.031	29.965	29.930	MEAN
MAX	29.962	29.893	29.820	29.858	30.435	30.489	30.455	30.397	30.245	30.104	29.989	29.955	MAX
MIN	29.896	29.819	29.749	29.698	29.869	30.444	30.388	30.238	30.104	29.969	29.947	29.895	MIN

WATER LEVELS IN METRES

MEAN, 30.064
MAXIMUM DAILY, 30.489 ON JUN 15
MINIMUM DAILY, 29.698 ON APR 21
MAXIMUM INSTANTANEOUS,
30.499 AT 15:00 CST ON JUN 15

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 09 23 N
LONG 093 33 53 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW

REINDEER LAKE AT BROCHET - STATION NO. 06DB001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	335.376	---	---	---	---	335.431	335.575	335.504	335.426	335.452	335.450	1
2	---	335.370A	---	335.162A	---	---	335.455	335.575	335.525	335.403	335.452	335.468	2
3	---	---	---	---	---	---	335.437	335.527	335.520	335.338	335.457	335.467	3
4	---	---	---	---	---	---	335.468	335.548	335.528	335.377	335.473	335.461	4
5	---	---	---	---	---	---	335.485	335.568	335.474	335.415	335.478	335.464	5
6	---	---	---	---	---	---	335.486	335.564A	335.492	335.418	335.478	335.466	6
7	---	---	---	---	---	---	335.477	---	335.533	335.432	335.496	335.458	7
8	335.474A	---	---	---	---	---	335.456	---	335.462	335.457	335.485	335.459	8
9	335.471	---	---	---	---	---	335.483	---	335.472	335.525	335.473	335.462	9
10	335.437	---	---	---	---	---	335.484	---	335.480	335.456	335.456	335.462	10
11	335.434	---	---	---	---	---	335.496	---	335.437	335.373	335.457	335.464	11
12	335.437	---	---	---	---	---	335.539	---	335.466	335.442	335.453	335.465	12
13	335.436	---	---	---	---	---	335.526	335.448A	335.479	335.448	335.447	335.459	13
14	335.446	---	---	---	---	---	335.537	335.476	335.460	335.451	335.463	335.460	14
15	335.453	---	---	---	---	---	335.540	335.510	335.467	335.467	335.475	335.458	15
16	335.443	---	---	---	---	---	335.528	335.462	335.503	335.467	335.450	335.444	16
17	335.437	---	---	---	---	---	335.530	335.472	335.497	335.464	335.457	335.440	17
18	335.425	---	---	---	---	---	335.526	335.503	335.477	335.483	335.472	335.442	18
19	335.420	---	---	---	---	335.365A	335.502	335.515	335.439	335.473	335.452	335.444	19
20	335.413	---	---	---	---	335.374	335.512	335.521	335.450	335.473	335.441	335.443	20
21	335.423	---	---	---	---	335.376	335.541	335.511	335.466	335.463	335.437	335.444	21
22	335.421	---	---	---	---	335.389	335.541	335.476	335.502	335.469	335.452	335.450	22
23	335.414	---	---	---	---	335.412	335.545	335.484	335.466	335.466	335.463	335.456	23
24	335.417	---	---	---	---	335.399	335.491	335.536	335.471	335.509	335.466	335.459	24
25	335.416	---	---	---	---	335.399	335.524	335.513	335.481	335.524	335.468	335.459	25
26	335.414	---	---	---	---	335.415	335.554	335.510	335.451	335.470	335.468	335.453	26
27	335.417	---	---	---	---	335.420	335.518	335.518	335.433	335.465	335.467	335.446	27
28	335.396	---	---	---	---	335.440	335.468	335.516	335.450	335.470	335.468	335.447	28
29	335.388		---	---	---	335.451	335.522	335.512	335.548	335.535	335.439	335.449	29
30	335.389		---	---	---	335.450	335.543	335.510	335.488	335.461	335.437	335.445	30
31	335.384		---		---		335.560	335.388		335.450		335.442A	31
MEAN	---	---	---	---	---	---	335.507	---	335.481	335.454	335.461	335.454	MEAN
MAX	---	---	---	---	---	---	335.560	---	335.548	335.535	335.496	335.468	MAX
MIN	---	---	---	---	---	---	335.431	---	335.433	335.338	335.437	335.440	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 52 50 N
LONG 101 40 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1930

DRAINAGE AREA, 62 600 km²

WATER LEVELS ARE REFERRED TO SASKATCHEWAN DEPARTMENT OF NATURAL RESOURCES DATUM

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.212	0.244	0.162	0.035	0.453	1.46	2.77	0.017	0.005	0.002	0.001	0.001	1
2	0.207	0.238	0.151	0.034	0.513	1.92	2.67	0.013	0.005	0.002	0.001	0.001	2
3	0.216	0.235	0.146	0.033	0.573	2.26	2.64	0.014	0.004	0.002	0.001	0.001	3
4	0.220	0.242	0.140	0.032	0.642	2.64	2.54	0.015	0.004	0.001	0.001	0.001	4
5	0.218	0.228	0.131	0.032	0.693	3.60	2.20	0.014	0.004	0.001	0.001	0.001	5
6	0.211	0.228	0.130	0.031	0.747	5.10	1.83	0.013	0.004	0.001	0	0.001	6
7	0.207	0.224	0.124	0.031	0.802	6.14	1.98	0.012	0.004	0.001	0	0.001	7
8	0.215	0.219	0.122	0.031	0.841	7.80	2.01	0.009	0.004	0.002	0	0.001	8
9	0.219	0.232	0.117	0.031	0.853	8.70	2.00	0.009	0.004	0.002	0	0.001	9
10	0.218	0.210	0.114	0.032	0.918	8.42	1.98	0.010	0.004	0.002	0	0.001	10
11	0.242	0.203	0.111	0.036	0.946	7.93	1.92	0.011	0.004	0.002	0	0.001	11
12	0.246	0.210	0.114	0.040	0.968	7.56	1.87	0.011	0.003	0.001	0	0.001	12
13	0.246	0.197	0.131	0.041	1.01	7.08	1.80	0.009	0.004	0.001	0	0.001	13
14	0.242	0.198	0.144	0.040	1.05	6.45	1.66	0.006	0.004	0.001	0	0.001	14
15	0.240	0.196	0.185	0.039	1.09	6.09	1.42	0.006	0.004	0.001	0	0.001	15
16	0.239	0.199	0.249	0.042	1.46	5.64	1.33	0.006	0.004	0.001	0	0.001	16
17	0.244	0.191	0.271	0.047	1.77	5.25	1.06	0.006	0.004	0.001	0	0.001	17
18	0.246	0.192	0.274	0.052	1.81	4.69	0.899	0.006	0.004	0.001	0	0.001	18
19	0.237	0.192	0.277	0.056	1.84	4.43	0.810	0.006	0.004	0.001	0	0.001	19
20	0.234	0.190	0.279	0.064	1.82	4.50	0.114	0.006	0.004	0.001	0	0.001	20
21	0.242	0.191	0.281	0.078	1.82	4.61	0.042	0.004	0.004	0.001	0	0.001	21
22	0.231	0.193	0.296	0.093	1.91	4.54	0.035	0.081	0.004	0.001	0	0.001	22
23	0.242	0.191	0.305	0.125	1.93	4.48	0.031	0.005	0.004	0.001	0	0.001	23
24	0.244	0.190	0.302	0.152	1.92	4.42	0.027	0.005	0.004	0.001	0	0.001	24
25	0.244	0.186	0.297	0.178	2.41	4.41	0.022	0.005	0.004	0.001	0	0.001	25
26	0.249	0.187	0.292	0.183	2.54	3.89	0.022	0.005	0.004	0.001	0	0.001	26
27	0.250	0.185	0.293	0.174	2.41	3.16	0.020	0.005	0.003	0.001	0	0.001	27
28	0.251	0.171	0.149	0.222	2.23	2.94	0.021	0.005	0.003	0.001	0.001	0.001	28
29	0.242		0.039	0.304	2.11	2.89	0.018	0.004	0.003	0.001	0.001	0.001	29
30	0.245		0.038	0.373	2.01	2.83	0.019	0.005	0.003	0.001	0.001	0.001	30
31	0.240		0.035		1.94		0.019	0.005		0.002		0.001	31
TOTAL	7.248	5.762	5.699	2.661	44.029	145.73	35.579	0.328	0.117	0.039	0.008	0.031	TOTAL
MEAN	0.234	0.206	0.184	0.089	1.42	4.86	1.15	0.011	0.004	0.001	0	0.001	MEAN
MAX	0.255	0.244	0.305	0.373	2.54	8.70	2.77	0.081	0.005	0.002	0.001	0.001	MAX
MIN	0.207	0.171	0.035	0.031	0.453	1.46	0.018	0.004	0.003	0.001	0	0.001	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.677
MAXIMUM DAILY, 8.70 ON JUN 09
MINIMUM DAILY, 0 ON NOV 06
MAXIMUM INSTANTANEOUS,
8.90 AT 18:57 CST ON JUN 09

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 42 N
LONG 095 32 40 W
DRAINAGE AREA, 159 km²

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	626	JUL	3 070
FEB	498	AUG	28.3
MAR	492	SEP	10.1
APR	230	OCT	3.37
MAY	3 800	NOV	0.691
JUN	12 600	DEC	2.68

TOTAL DISCHARGE, 21 400 dam³

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	7.50	0.015	0	0	0	0	0	---	---	1
2	---	---	0 B	4.08	0.012	0	0	0E	0	0	---	---	2
3	---	---	0 B	3.81	0.011	0	0	0E	0	0	---	---	3
4	---	---	0 B	2.99	0.013	0.001	0.003	0E	0	0	---	---	4
5	---	---	0 B	1.52 B	0.014	0.001	0.003	0E	0				5
6	---	---	0 B	1.28 B	0.014	0	0	0E	0	0	---	---	6
7	---	---	0 B	0.862	0.012	0	0.011	0E	0	0	---	---	7
8	---	---	0 B	0.697	0.011	0	0.029	0E	0	0	---	---	8
9	---	---	0 B	0.530	0.006	0	0.032	0E	0	0	---	---	9
10	---	---	0 B	2.03	0.002	0	0.024A	0E	0	0	---	---	10
11	---	---	0 B	2.36	0	0	0.016	0E	0	0	---	---	11
12	---	---	0 B	1.21	0	0	0.008	0E	0	0	---	---	12
13	---	---	0.002B	0.745	0	0	0.001	0E	0	0	---	---	13
14	---	---	0.004B	0.417	0	0	0	0E	0	0	---	---	14
15	---	---	0.006B	0.203	0	0	0	0E	0	0	---	---	15
16	---	---	0.008B	0.140	0	0	0	0A	0	0	---	---	16
17	---	---	0.010B	0.092	0	0	0	0	0	0	---	---	17
18	---	---	0.008B	0.075	0	0	0	0	0	0	---	---	18
19	---	---	0.005B	0.058	0	0	0	0	0	0	---	---	19
20	---	---	0.003B	0.052	0	0.002A	0	0	0	0	---	---	20
21	---	---	0.002B	0.043	0	0.004	0	0	0	0	---	---	21
22	---	---	0.001B	0.032	0	0.008	0	0	0	0	---	---	22
23	---	---	0 B	0.039	0	0.021	0	0	0	0	---	---	23
24	---	---	0 B	0.054	0	0.025	0	0	0	0	---	---	24
25	---	---	0 B	0.049	0	0.023	0	0	0				25
26	---	---	0 B	0.037	0	0.017	0	0	0	0	---	---	26
27	---	---	0 B	0.024	0	0.010	0	0	0	0	---	---	27
28	---	---	0 B	0.020	0	0.004	0	0	0	0	---	---	28
29	---	---	0.031B	0.017	0	0	0	0	0	0A	---	---	29
30	---		0.591B	0.017	0	0	0	0		0E		---	30
31	---		3.99 B		0		0						31
TOTAL	---	---	4.661	30.983	0.112	0.116	0.127	0	0	0	---	---	TOTAL
MEAN	---	---	0.150	1.03	0.004	0.004	0.004	0	0	0	---	---	MEAN
MAX	---	---	3.99	7.50	0.015	0.025	0.032	0	0	0	---	---	MAX
MIN	---	---	0	0.017	0	0	0	0	0				MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.147
MAXIMUM DAILY, 7.50 ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
8.35 AT 04:00 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 30 N
LONG 097 18 50 W
DRAINAGE AREA, 204 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	11.0
FEB	---	AUG	0
MAR	403	SEP	0
APR	2 680	OCT	0
MAY	9.68	NOV	---
JUN	10.0	DEC	---

TOTAL DISCHARGE, 3 110 dam³

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.276B	4.87B	8.79	4.33	3.42	0.380	0.086	0.131	---	---	1
2	---	---	0.266B	9.43B	8.08	4.21	2.46	0.350	0.095	0.142	---	---	2
3	---	---	0.269B	17.8 B	8.37	3.84	2.19	0.320	0.085	0.197	---	---	3
4	---	---	0.271B	29.1 B	10.5	3.57	2.72	0.275	0.088	0.199	---	---	4
5	---	---	0.265B	13.6 B	12.4	3.38	3.35	0.255	0.085	0.203	---	---	5
6	---	---	0.262B	9.15B	13.0	3.45	2.79	0.213	0.068	0.217	---	---	6
7	---	---	0.273B	7.30B	12.9	3.49	2.43	0.195	0.066	0.240	---	---	7
8	---	---	0.287B	5.82B	13.3	3.36	2.43	0.170	0.067	0.229	---	---	8
9	---	---	0.305B	4.00B	12.3	3.36	2.35	0.149	0.083	0.221	---	---	9
10	---	---	0.320B	2.53B	14.0	3.12	2.59	0.148	0.090	0.249	---	---	10
11	---	---	0.347B	1.65B	13.5	2.84	2.30	0.145	0.091	0.276	---	---	11
12	---	---	0.359B	1.63B	12.4	2.81	2.36	0.138	0.091	0.305	---	---	12
13	---	---	0.361B	1.65B	10.5	2.59	2.50	0.135	0.083	0.331	---	---	13
14	---	---	0.378B	1.90B	9.40	2.45	2.33	0.132	0.094	0.315	---	---	14
15	---	---	0.375B	2.35B	8.49	2.42	1.77	0.130	0.098	0.278	---	---	15
16	---	---	0.387B	2.52B	9.62	2.22	1.54	0.126	0.103	0.286	---	---	16
17	---	---	0.406B	1.78B	35.2	2.03	1.42	0.122	0.107	0.269	---	---	17
18	---	---	0.426B	2.02B	39.2	1.83	1.20	0.119	0.112	0.252	---	---	18
19	---	---	0.442B	4.35B	29.4	1.68	1.12	0.114	0.106	0.262	---	---	19
20	---	---	0.443B	15.3	21.3	1.56	1.10	0.111	0.109	0.299	---	---	20
21	---	---	0.448B	15.7	17.2	1.49	1.04	0.108	0.109	0.253	---	---	21
22	---	---	0.445B	18.6	14.1	1.47	0.966	0.107	0.108	0.256	---	---	22
23	---	---	0.438B	26.8	12.9	1.42	0.903	0.103	0.103	0.257	---	---	23
24	---	---	0.447B	31.3	11.1	1.34	0.872	0.111	0.113	0.232	---	---	24
25	---	---	0.453B	31.0	9.44	1.21	0.859	0.131	0.104	0.274	---	---	25
26	---	---	0.458B	25.4	8.01	1.73	0.740	0.118	0.100	0.273	---	---	26
27	---	---	0.468B	18.1	7.11	1.96	0.756	0.112	0.093	0.254	---	---	27
28	---	---	0.479B	13.6	6.12	4.21	0.625	0.105	0.089	0.227	---	---	28
29	---	---	0.512B	10.3	5.42	4.64	0.537	0.098	0.088	0.217	---	---	29
30	---		0.540B	8.96	5.08	5.68	0.460	0.094	0.104	0.212	---	---	30
31	---		1.62 B		4.61		0.440	0.090		0.218A		---	31
TOTAL	---	---	13.026	338.51	403.74	83.69	52.368	4.904	2.818	7.574	---	---	TOTAL
MEAN	---	---	0.420	11.3	13.0	2.79	1.69	0.158	0.094	0.244	---	---	MEAN
MAX	---	---	1.62	39.2	39.2	5.68	3.42	0.380	0.113	0.331	---	---	MAX
MIN	---	---	0.262	1.63	4.61	1.21	0.440	0.090	0.066	0.131	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.70
MAXIMUM DAILY, 39.2 ON MAY 18
MINIMUM DAILY, 0.066 ON SEP 07
MAXIMUM INSTANTANEOUS,
46.4 AT 17:52 CST ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 09 10 N
LONG 101 03 10 W
DRAINAGE AREA, 838 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

REMARKS - STAGE-DISCHARGE RELATIONSHIP AFFECTED BY BEAVER ACTIVITY

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 520
FEB	---	AUG	424
MAR	1 130	SEP	243
APR	29 200	OCT	654
MAY	34 900	NOV	---
JUN	7 230	DEC	---

TOTAL DISCHARGE, 78 300 dam³

ROCK LAKE NEAR GLENORA - STATION NO. 05OB027

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	404.959	404.961	405.102	405.449	---	---	---	405.282	405.215	405.166	405.139	1
2	---	404.959	404.959	405.131	405.441	---	---	---	405.270	405.210	405.190	405.137	2
3	---	404.961	404.956	405.189	405.451	---	---	---	405.273	405.234	405.171	405.142	3
4	---	404.963	404.955	405.258	405.456	---	---	---	405.271	405.243	405.147	405.139	4
5	---	404.962	404.955	405.301	405.457	---	---	---	405.264	405.203	405.159	405.146	5
6	---	404.963	404.954	405.325	405.459	---	---	---	405.265	405.211	405.168	405.144	6
7	---	404.966	404.954	405.345	405.461	---	---	---	405.270	405.203	405.146	405.146	7
8	---	404.965	404.955	405.360	405.459	---	---	---	405.263	405.194	405.149	405.145	8
9	---	404.966	404.958	405.378	405.449	---	---	---	405.260	405.192	405.148	405.145	9
10	---	404.963	404.962	405.386	405.446	---	405.459A	---	405.254	405.189	405.146	405.146	10
11	---	404.968	404.963	405.393	405.443	---	405.455	---	405.252	405.205	405.147	405.152	11
12	---	404.966	404.970	405.396	405.440	---	405.451	---	405.242	405.180	405.144	405.159	12
13	---	404.961	404.987	405.400	405.434	---	405.455	---	405.249	405.183	405.142	405.157	13
14	---	404.959	404.998	405.403	405.431	---	405.441	---	405.248	405.190	405.146	405.159	14
15	---	404.962	405.014	405.405	405.421	---	405.441A	405.301A	405.239	405.175	405.143	405.158	15
16	---	404.961	405.032	405.407	405.458	---	---	405.279	405.230	405.172	405.143	405.161	16
17	404.945A	404.959	405.038	405.406	405.470	---	---	405.269	405.228	405.177	405.141	405.160	17
18	404.943	404.962	405.040	405.406	405.462	---	---	405.261	405.249	405.168	405.143	405.162	18
19	404.942	404.959	405.040	405.410	405.459	---	---	405.261	405.239	405.170	405.142	405.166	19
20	404.938	404.957	405.043	405.411	405.460	---	---	405.263	405.246	405.186	405.142	405.168	20
21	404.943	404.955	405.045	405.414	405.460	---	---	405.263	405.251	405.168	405.152	405.168	21
22	404.947	404.955	405.047	405.416	405.461	---	---	405.266	405.239	405.190A	405.162	405.168	22
23	404.953	404.961	405.046	405.417	405.460	---	---	405.296	405.234	405.213E	405.163	405.168	23
24	404.951	404.958	405.048	405.420	405.452	---	---	405.296	405.241	405.205E	405.145	405.168	24
25	404.949	404.956	405.050	405.439	405.440	---	---	405.300	405.230	405.193E	405.142	405.169	25
26	404.954	404.960	405.050	405.437	405.459	---	---	405.299	405.221	405.190E	405.145	405.167	26
27	404.954	404.959	405.051	405.432	405.460	---	---	405.311	405.216	405.179E	405.144	405.170	27
28	404.957	404.959	405.055	405.448	405.457	---	---	405.312	405.210	405.171E	405.142	405.172	28
29	404.962		405.055	405.448	405.453	---	---	405.305	405.214	405.156A	405.141	405.170	29
30	404.959		405.060	405.450	405.458	---	---	405.297	405.218	405.156A	405.145	405.170	30
31	404.959		405.073		405.451A		---	405.314		405.158		405.172	31
MEAN	---	404.961	405.009	405.371	405.452	---	---	---	405.246	405.190	405.150	405.158	MEAN
MAX	---	404.968	405.073	405.450	405.470	---	---	---	405.282	405.243	405.190	405.172	MAX
MIN	---	404.955	404.954	405.102	405.421	---	---	---	405.210	405.156	405.141	405.137	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 405.470 ON MAY 17
MINIMUM DAILY, 404.938 ON JAN 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 40 N
LONG 099 08 45 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
3 630 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.092B	0.078B	0.052B	0.195B	13.2	3.56	1.32	0.364	0.122	0.078	0.140A	0.117B	1
2	0.091B	0.077B	0.051B	0.196B	10.6	3.26	1.22	0.326	0.093	0.073	0.144E	0.113B	2
3	0.094B	0.075B	0.049B	0.242B	8.79	2.96	1.22	0.291	0.078	0.072	0.146E	0.109B	3
4	0.092B	0.073B	0.048B	0.310B	7.65	2.78	1.26	0.256	0.078	0.072	0.148B	0.107B	4
5	0.089B	0.070B	0.047B	0.305B	7.02	2.69	1.27	0.201	0.084	0.074	0.154B	0.105B	5
6	0.087B	0.069B	0.046B	0.325B	6.58	2.59	1.33	0.154	0.109	0.074	0.157B	0.103B	6
7	0.085B	0.067B	0.046B	0.358B	5.99	2.48	1.69	0.120	0.110	0.074	0.160B	0.102B	7
8	0.089B	0.067B	0.048B	0.393B	5.58	2.76	2.35	0.292	0.111	0.076	0.166B	0.100B	8
9	0.088B	0.065B	0.050B	0.384B	5.30	3.06	2.78	0.357	0.112	0.076	0.172B	0.098B	9
10	0.094B	0.064B	0.049B	0.389B	5.08	3.47	2.94	0.247	0.108	0.076	0.175B	0.095B	10
11	0.106B	0.062B	0.050B	0.404B	4.92	3.83	2.66	0.238	0.104	0.077	0.171B	0.095B	11
12	0.102B	0.068B	0.055B	0.402B	4.71	3.96	2.20	0.229	0.100	0.079	0.166B	0.094B	12
13	0.104B	0.066B	0.071B	0.429B	4.47	3.93	2.00	0.219	0.099	0.082	0.163B	0.094B	13
14	0.105B	0.060B	0.082B	0.455B	4.20	3.69	1.80	0.184	0.097	0.085	0.160B	0.092B	14
15	0.101B	0.058B	0.094B	0.456B	3.91	3.10	1.34	0.161	0.096	0.087	0.156B	0.092B	15
16	0.102B	0.058B	0.096B	0.474B	4.41	2.52	1.03	0.157	0.095	0.088	0.151B	0.090B	16
17	0.105B	0.058B	0.083B	0.548B	5.02	2.03	0.888	0.148	0.095	0.090	0.146B	0.091B	17
18	0.103B	0.058B	0.082B	0.901B	7.25	1.76	0.790	0.120	0.091	0.091	0.144B	0.089B	18
19	0.103B	0.055B	0.095B	1.86 B	14.6	1.64	0.741	0.103	0.087	0.095	0.142B	0.089B	19
20	0.100B	0.055B	0.107B	4.33 B	17.6	2.00	0.656	0.096	0.105	0.112	0.140B	0.088B	20
21	0.101B	0.055B	0.121B	6.19 B	15.4	3.32	0.588	0.081	0.122	0.120	0.138B	0.088B	21
22	0.096B	0.053B	0.133B	7.66 B	12.3	4.14	0.537	0.068	0.119	0.122	0.134B	0.087B	22
23	0.097B	0.053B	0.149B	11.3	9.92	4.06	0.496	0.070	0.114	0.123	0.131B	0.086B	23
24	0.092B	0.053B	0.161B	15.6	8.30	3.65	0.581	0.067	0.111	0.123	0.129B	0.086B	24
25	0.087B	0.053B	0.159B	19.7	7.35	3.12	0.772	0.066	0.108	0.125	0.127B	0.085B	25
26	0.088B	0.054B	0.158B	20.9	6.66	2.42	0.691	0.069	0.104	0.132	0.125B	0.084B	26
27	0.081B	0.053B	0.157B	20.3	6.10	1.92	0.658	0.081	0.097	0.133	0.125B	0.082B	27
28	0.078B	0.052B	0.155B	18.8	5.54	1.66	0.612	0.110	0.091	0.135	0.123B	0.083B	28
29	0.077B		0.159B	17.0	4.91	1.54	0.541	0.105	0.090	0.136	0.121B	0.081B	29
30	0.077B		0.175B	15.8	4.36	1.43	0.459	0.118	0.085	0.137	0.119B	0.082B	30
31	0.079B		0.193B		3.92		0.407	0.139		0.139		0.082B	31
TOTAL	2.885	1.729	3.021	166.606	231.64	85.33	37.827	5.237	3.015	3.056	4.373	2.889	TOTAL
MEAN	0.093	0.062	0.098	5.55	7.47	2.84	1.22	0.169	0.101	0.099	0.146	0.093	MEAN
MAX	0.106	0.078	0.193	20.9	17.6	4.14	2.94	0.364	0.122	0.139	0.175	0.117	MAX
MIN	0.077	0.052	0.046	0.195	3.91	1.43	0.407	0.066	0.078	0.072	0.119	0.081	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.50
MAXIMUM DAILY, 20.9 ON APR 26
MINIMUM DAILY, 0.046B ON MAR 06
MAXIMUM INSTANTANEOUS,
21.2 AT 02:21 CST ON APR 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 31 12 N
LONG 099 56 27 W
DRAINAGE AREA, 760 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	249	JUL	3 270
FEB	149	AUG	452
MAR	261	SEP	260
APR	14 400	OCT	264
MAY	20 000	NOV	378
JUN	7 370	DEC	250

TOTAL DISCHARGE, 47 300 dam³

ROSEAU RIVER ABOVE DOMINION CITY DAM (P.R. 200) - STATION NO. 05OD802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	232.184E	231.817E	231.970E	231.782	231.262E	230.838E	230.997E	---	1
2	---	---	---	---	232.212E	231.907	231.961E	231.813E	231.053E	230.836E	230.974	---	2
3	---	---	---	---	232.239	231.825	231.953	231.843	230.843	230.834	231.032E	---	3
4	---	---	---	---	232.253E	231.865E	232.081E	231.921E	231.061E	230.749E	231.090E	---	4
5	---	---	---	---	232.267	231.906E	232.209	231.999	231.279	230.663	231.148	---	5
6	---	---	---	---	232.264	231.947	232.261E	231.956E	231.308E	230.668E	231.168E	---	6
7	---	---	---	---	232.238E	231.974E	232.312	231.913E	231.337	230.673	231.188	---	7
8	---	---	---	---	232.213E	232.002	232.418E	231.870E	231.330E	230.678E	231.206E	---	8
9	---	---	---	---	232.188	232.052E	232.523	231.828E	231.323E	230.682E	231.224	---	9
10	---	---	---	---	232.085E	232.103E	232.395E	231.785	231.316	230.687E	231.250E	---	10
11	---	---	---	232.474	231.983	232.153E	232.267	231.762E	231.183E	230.692E	231.276	---	11
12	---	---	---	---	232.046E	232.204E	232.151E	231.759	231.051	230.697	231.265E	---	12
13	---	---	---	---	232.108	232.255	232.035	231.695E	231.092E	230.705E	231.254E	---	13
14	---	---	---	---	232.047E	232.206E	232.053E	231.650E	231.133	230.712	231.243	---	14
15	---	---	---	231.706	231.986E	232.157	232.072	231.605	231.052E	230.727E	231.182	---	15
16	---	---	---	---	231.925	232.046E	231.988E	231.598E	230.971	230.743E	231.169	---	16
17	---	---	---	---	231.963E	231.935	231.904	231.590	230.928E	230.758	231.151E	---	17
18	---	---	---	232.154	232.002	231.882E	231.822E	231.625E	230.884E	230.785E	231.133	---	18
19	---	---	---	---	232.201E	231.829E	231.739	231.660	230.840	230.813	231.129E	---	19
20	---	---	---	232.166	232.401	231.776	231.627E	231.653E	230.929E	230.817E	231.125E	---	20
21	---	---	---	---	232.031E	231.837E	231.514	231.645	231.017	230.822	231.121	---	21
22	---	---	---	232.139	231.660E	231.898	231.467E	231.680E	230.953E	230.837E	231.102E	---	22
23	---	---	---	---	231.660	231.968E	231.419	231.716E	230.889	230.852E	231.084	---	23
24	---	---	---	232.312	231.650E	232.038	231.621E	231.752	230.863E	230.868	---	---	24
25	---	---	---	---	231.639	232.036E	231.822E	231.839E	230.837	230.912E	---	---	25
26	---	---	---	---	231.636E	232.034E	232.023	231.925	230.840E	230.956	---	---	26
27	---	---	---	---	231.633	232.032	231.982E	231.803E	230.843E	230.968E	---	---	27
28	---	---	---	---	231.634E	232.009E	231.941	231.686E	230.846	230.980	---	---	28
29	---		---	---	231.635E	231.986	231.953E	231.566	230.843E	230.994E	---	---	29
30	---		---	232.154	231.636	231.978E	231.965	231.518E	230.840	231.007E	---	---	30
31	---		---		231.726E		231.874E	231.471		231.020		---	31
MEAN	---	---	---	---	231.979	231.989	231.978	231.738	231.032	230.806	---	---	MEAN
MAX	---	---	---	---	232.401	232.255	232.523	231.999	231.337	231.020	---	---	MAX
MIN	---	---	---	---	231.633	231.776	231.419	231.471	230.837	230.663	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 08 43 N
LONG 097 09 46 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1957

DRAINAGE AREA,
5 690 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "NEAR DOMINION CITY"

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.007B	10.5 B	3.70	3.13	4.69	0.543	0.037	0.008	---	---	1
2	---	---	0.010B	13.2 B	4.03	2.42	4.31	0.572	0.035	0.010	---	---	2
3	---	---	0.015B	16.9 B	4.33	3.06	7.37	0.540	0.027	0.013	---	---	3
4	---	---	0.021B	17.8 B	4.55	2.61	6.72	0.474	0.026	0.016	---	---	4
5	---	---	0.027B	15.1 B	4.65	2.61	6.07	0.364	0.018	0.019	---	---	5
6	---	---	0.032B	12.6 B	4.88	3.81	6.43	0.331	0.018	0.022	---	---	6
7	---	---	0.037B	13.4 B	4.95	4.39	9.60	0.277	0.024	0.020	---	---	7
8	---	---	0.044B	10.3 B	4.76	4.88	10.8	0.236	0.023	0.014	---	---	8
9	---	---	0.050B	6.59B	4.28	4.93	10.6	0.197	0.026	0.011	---	---	9
10	---	---	0.056B	5.18B	4.24	4.59	10.3	0.193	0.023	0.010	---	---	10
11	---	---	0.062B	4.83B	3.95	5.52	10.1	0.182	0.015	0.011	---	---	11
12	---	---	0.071B	4.64B	3.58	6.85	9.48	0.168	0.011	0.012	---	---	12
13	---	---	0.077B	5.25B	3.51	6.13	8.94	0.156	0.010	0.015	---	---	13
14	---	---	0.083B	4.38B	3.27	4.92	8.27	0.154	0.008	0.017	---	---	14
15	---	---	0.153B	3.46	2.97	4.17	7.66	0.139	0.007	0.018	---	---	15
16	---	---	1.54 B	3.17	3.01	3.58	6.88	0.134	0.007	0.015	---	---	16
17	---	---	2.22 B	2.76	3.22	3.28	5.84	0.120	0.005	0.015	---	---	17
18	---	---	2.60 B	2.54	3.54	2.84	4.71	0.103	0.018	0.014	---	---	18
19	---	---	8.07 B	2.25	3.89	2.52	3.89	0.096	0.017	0.013	---	---	19
20	---	---	10.2 B	2.14	3.85	2.89	3.31	0.092	0.021	0.015	---	---	20
21	---	---	10.4 B	2.16	3.77	3.56	2.89	0.076	0.013	0.015	---	---	21
22	---	---	10.1 B	2.16	3.66	4.64	2.48	0.073	0.011	0.016	---	---	22
23	---	---	8.83 B	2.37	3.47	5.69	2.12	0.071	0.017	0.019	---	---	23
24	---	---	8.38 B	2.35	3.29	7.56	1.76	0.062	0.011	0.019	---	---	24
25	---	---	7.72 B	2.32	3.07	7.98	1.49	0.068	0.007	0.017	---	---	25
26	---	---	6.50 B	2.21	2.81	7.84	1.22	0.057	0.007	0.017	---	---	26
27	---	---	5.24 B	2.48	2.38	7.39	1.07	0.054	0.008	0.023	---	---	27
28	---	---	4.37 B	3.22	2.48	6.72	0.951	0.055	0.004	0.019	---	---	28
29	---	---	4.94 B	3.52	6.06	6.06	0.801	0.057	0	0.018	---	---	29
30	---		6.29 B	3.53	7.08	5.42	0.686	0.051	0.001	0.017	---	---	30
31	---		7.98 B		6.54		0.597	0.046		0.016A		---	31
TOTAL	---	---	106.125	183.31	123.77	141.99	162.035	5.743	0.455	0.484	---	---	TOTAL
MEAN	---	---	3.42	6.11	3.99	4.73	5.23	0.185	0.015	0.016	---	---	MEAN
MAX	---	---	10.4	17.8	7.08	7.98	10.8	0.572	0.037	0.023	---	---	MAX
MIN	---	---	0.007	2.14	2.38	2.42	0.597	0.046	0	0.008	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.95
MAXIMUM DAILY, 17.8B ON APR 04
MINIMUM DAILY, 0 ON SEP 29
MAXIMUM INSTANTANEOUS,
19.4 AT 16:48 CST ON APR 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 16 N
LONG 096 41 15 W
DRAINAGE AREA, 4 380 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	14 000
FEB	---	AUG	496
MAR	9 170	SEP	39.3
APR	15 800	OCT	41.8
MAY	10 700	NOV	---
JUN	12 300	DEC	---

TOTAL DISCHARGE, 62 500 dam³

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.004B	0.003B	0.003B	8.49B	3.68	2.27	3.74	0.481	0.031	0.004	0.007	0.013	1
2	0.003B	0.003B	0.003B	9.91B	3.82	1.70	3.14	0.510	0.028	0.004	0.008	0.012	2
3	0.003B	0.003B	0.003B	11.0 B	3.91	1.95	3.43	0.425	0.024	0.004	0.006	0.010	3
4	0.003B	0.003B	0.003B	11.0 B	3.99	2.07	3.14	0.396	0.021	0.004	0.005	0.009	4
5	0.003B	0.003B	0.003B	10.6 B	4.25	3.11	3.68	0.340	0.019	0.003	0.005	0.010	5
6	0.003B	0.003B	0.003B	9.34B	4.45	4.33	5.15	0.283	0.017	0.004	0.005	0.010	6
7	0.003B	0.003B	0.003B	8.21B	4.39	4.67	6.82	0.241	0.015	0.004	0.004	0.010	7
8	0.003B	0.003B	0.003B	7.36B	4.05	4.84	7.73	0.212	0.012	0.003	0.004	0.011	8
9	0.003B	0.003B	0.003B	5.66B	3.79	4.67	8.21	0.184	0.010	0.003	0.004	0.012	9
10	0.003B	0.003B	0.004B	4.81B	3.60	4.53	8.58	0.164	0.006	0.002	0.003	0.013	10
11	0.003B	0.003B	0.006B	3.96B	3.31	4.70	8.52	0.150	0.004	0.003	0.003	0.015	11
12	0.003B	0.003B	0.014B	3.54B	3.14	4.73	8.30	0.139	0.003	0.001	0.001	0.018	12
13	0.003B	0.003B	0.057B	3.11B	2.94	4.33	7.93	0.127	0.002	0.003	0.001	0.019	13
14	0.003B	0.003B	0.255B	2.89B	2.72	3.88	7.28	0.119	0.001	0.004	0.002	0.020	14
15	0.003B	0.003B	1.13 B	2.69	2.49	3.54	6.71	0.110	0	0.004	0.003	0.021	15
16	0.003B	0.003B	1.70 B	2.49	2.49	3.20	5.69	0.105	0	0.004	0.003	0.023	16
17	0.003B	0.003B	2.83 B	2.32	2.66	2.89	4.28	0.099	0	0.003	0.002	0.023	17
18	0.003B	0.003B	5.66 B	2.15	3.06	2.58	3.17	0.091	0.003	0.003	0.003	0.022	18
19	0.003B	0.003B	7.93 B	2.07	3.17	2.44	2.58	0.085	0.004	0.003	0.002	0.021	19
20	0.003B	0.003B	8.49 B	2.15	3.09	2.61	2.15	0.076	0.004	0.003	0.003	0.021	20
21	0.003B	0.003B	8.49 B	2.21	2.94	3.26	1.84	0.071	0.006	0.003	0.006	0.019	21
22	0.003B	0.004B	8.21 B	2.35	2.83	4.02	1.53	0.065	0.006	0.003	0.010	0.018	22
23	0.003B	0.006B	7.93 B	2.44	2.72	5.83	1.30	0.062	0.005	0.003	0.015	0.017	23
24	0.003B	0.006B	7.08 B	2.35	2.58	7.05	1.10	0.057	0.005	0.003	0.010	0.016	24
25	0.003B	0.004B	5.95 B	2.35	2.46	7.16	0.963	0.054	0.005	0.003	0.019	0.015	25
26	0.003B	0.003B	5.10 B	2.44	2.24	6.88	0.849	0.051	0.004	0.003	0.018	0.015	26
27	0.003B	0.003B	4.53 B	2.78	2.07	6.40	0.765	0.048	0.004	0.006	0.017	0.013	27
28	0.003B	0.003B	4.53 B	3.23	4.22	5.80	0.708	0.042	0.004	0.004	0.016	0.010	28
29	0.003B		4.53 B	3.34	7.16	5.13	0.623	0.040	0.004	0.005	0.014	0.010	29
30	0.003B		4.53 B	3.40	7.53	4.47	0.566	0.037	0.005	0.006	0.014	0.009	30
31	0.003B		5.66 B		5.63		0.538	0.034		0.006		0.008	31
TOTAL	0.094	0.092	94.643	140.64	111.38	125.04	121.012	4.898	0.252	0.111	0.221	0.463	TOTAL
MEAN	0.003	0.003	3.05	4.69	3.59	4.17	3.90	0.158	0.008	0.004	0.007	0.015	MEAN
MAX	0.004	0.006	8.49	11.0	7.53	7.16	8.58	0.510	0.031	0.006	0.019	0.023	MAX
MIN	0.003	0.003	0.003	2.07	2.07	1.70	0.538	0.034	0	0.001	0.001	0.008	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.64
MAXIMUM DAILY, 11.0B ON APR 03
MINIMUM DAILY, 0 ON SEP 15
MAXIMUM INSTANTANEOUS,
11.3 AT 17:00 CST ON APR 03

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 58 54 N
LONG 096 27 46 W
DRAINAGE AREA, 4 150 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	8 12	JUL 10	500
FEB	7 95	AUG	423
MAR	8 180	SEP	21 8
APR	12 200	OCT	9 59
MAY	9 620	NOV	19 1
JUN	10 800	DEC	40 0

TOTAL DISCHARGE, 51 800 dam³

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.126B	0.070B	0.099B	20.1 B	3.27	6.58	5.07	0.734	0.038	0.040	0.096	0.051B	1
2	0.137B	0.068B	0.121B	19.9 B	3.31	4.94	4.50	0.717	0.048	0.049	0.097	0.046B	2
3	0.137B	0.066B	0.111B	19.7 B	3.45	7.20	6.47	0.662	0.076	0.054	0.092	0.051B	3
4	0.134B	0.067B	0.099B	20.6 B	3.67A	9.09	9.57	0.625	0.065	0.056	0.094	0.055B	4
5	0.131B	0.064B	0.087B	17.6 B	4.02E	7.49	9.38	0.601	0.078	0.073	0.095	0.062B	5
6	0.124B	0.063B	0.073B	15.2 B	4.21E	6.07	7.85	0.565	0.068	0.038	0.089B	0.065B	6
7	0.113B	0.058B	0.061B	12.4 B	4.57E	6.20	9.46	0.537	0.056	0.127	0.087B	0.070B	7
8	0.105B	0.057B	0.084B	10.8 B	4.76A	6.77	15.2	0.496	0.067	0.085	0.091B	0.072B	8
9	0.102B	0.056B	0.128B	6.91B	4.52	7.74	16.2	0.485	0.068	0.085	0.105B	0.074B	9
10	0.100B	0.062B	0.126B	6.09B	4.12	8.15	14.4	0.464	0.067	0.075	0.087B	0.076B	10
11	0.106B	0.063B	0.134B	6.28B	4.01	7.49	12.4	0.459	0.079	0.067	0.085B	0.070B	11
12	0.102B	0.069B	0.227B	6.39B	3.71	9.99	10.7	0.452	0.058	0.070	0.088B	0.068B	12
13	0.107B	0.068B	0.643B	5.04B	3.50	11.5	9.20	0.420	0.086	0.065	0.089B	0.069B	13
14	0.109B	0.066B	2.12 B	4.72B	3.45	10.3	8.00	0.411	0.087	0.068	0.092B	0.062B	14
15	0.114B	0.060B	4.61 B	4.22B	3.21	7.85	6.97	0.367	0.044	0.044	0.090B	0.065B	15
16	0.118B	0.057B	5.77 B	3.73B	3.10	6.20	6.00	0.312	0.088	0.045	0.083B	0.050B	16
17	0.120B	0.060B	3.29 B	3.26A	3.36	5.15	5.21	0.293	0.032	0.050	0.081B	0.051B	17
18	0.122B	0.060B	2.42 B	3.07	3.49	4.83	4.30	0.231	0.017	0.065	0.078B	0.053B	18
19	0.125B	0.059B	2.58 B	2.95	3.90	4.28	3.44	0.188	0.024	0.071	0.072B	0.046B	19
20	0.134B	0.063B	3.42 B	2.79	4.07	4.12	2.84	0.129	0.024	0.074	0.070B	0.038B	20
21	0.133B	0.075B	5.54 B	2.69	3.82	4.88	2.42	0.084	0.031	0.051	0.074B	0.039B	21
22	0.129B	0.084B	5.52 B	2.69	3.63	7.11	2.09	0.048	0.003	0.041	0.057B	0.043B	22
23	0.121B	0.092B	4.73 B	2.72	3.48	8.88	1.83	0.038	0.019	0.071	0.046B	0.044B	23
24	0.109B	0.094B	3.96 B	2.77	3.19	8.73	1.63	0.058	0.037	0.063	0.046B	0.044B	24
25	0.096B	0.088B	3.88 B	2.83	2.95	9.43	1.46	0.034	0.017	0.062	0.039B	0.046B	25
26	0.091B	0.086B	3.23 B	2.90	2.77	8.97	1.28	0.045	0.020	0.062	0.041B	0.046B	26
27	0.087B	0.091B	3.42 B	2.95	2.60	8.17	1.17	0.055	0.027	0.077	0.044B	0.041B	27
28	0.083B	0.092B	2.62 B	3.01	2.37	7.40	1.07	0.037	0.023	0.076	0.046B	0.040B	28
29	0.080B		2.83 B	3.11	2.19	6.67	0.958	0.034	0.029	0.086	0.045B	0.041B	29
30	0.075B		6.42 B	3.20	5.70	5.90	0.872	0.080	0.039	0.095	0.049B	0.040B	30
31	0.073B		13.5 B		7.09		0.800	0.068		0.095		0.034B	31
TOTAL	3.443	1.958	81.753	220.62	115.49	218.08	182.740	9.729	1.415	2.094	2.248	1.652	TOTAL
MEAN	0.111	0.070	2.64	7.35	3.73	7.27	5.89	0.314	0.047	0.068	0.075	0.053	MEAN
MAX	0.137	0.094	13.5	20.6	7.09	11.5	16.2	0.734	0.088	0.127	0.105	0.076	MAX
MIN	0.073	0.056	0.061	2.69	2.19	4.12	0.800	0.034	0.003	0.038	0.039	0.034	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.30
MAXIMUM DAILY, 20.6B ON APR 04
MINIMUM DAILY, 0.003 ON SEP 22
MAXIMUM INSTANTANEOUS,
21.3 AT 23:01 CST ON APR 03

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 53 N
LONG 097 03 15 W
DRAINAGE AREA, 5 260 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	297	JUL	15 800
FEB	169	AUG	841
MAR	7 060	SEP	122
APR	19 100	OCT	181
MAY	9 980	NOV	194
JUN	18 800	DEC	143

TOTAL DISCHARGE, 72 700 dam³

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	11.1 B	0.233	0.133	0.116	0.015	0	0	---	---	1
2	---	---	0 B	5.76 B	0.252	8.82	0.111	0.017	0	0	---	---	2
3	---	---	0 B	5.43 B	0.238	7.14	0.521	0.016	0	0	---	---	3
4	---	---	0 B	5.80 B	0.278	3.25	0.344	0.012	0	0	---	---	4
5	---	---	0 B	2.50 B	0.286	1.69	0.188	0.008	0	0	---	---	5
6	---	---	0 B	2.09 B	0.271	1.04	0.159	0.008	0	0	---	---	6
7	---	---	0 B	1.70 B	0.250	0.675	5.02	0.007	0	0	---	---	7
8	---	---	0 B	1.73 B	0.230	0.853	2.04	0.007	0	0	---	---	8
9	---	---	0 B	1.27 B	0.206	0.964	0.717	0.006	0	0	---	---	9
10	---	---	0 B	0.973B	0.189	0.687	0.363	0.006	0	0	---	---	10
11	---	---	0 B	0.870B	0.172	0.506	0.239	0.006	0	0	---	---	11
12	---	---	0.347B	0.794B	0.159	1.43	0.181	0.006	0	0	---	---	12
13	---	---	1.70 B	1.59 B	0.150	1.24	0.148	0.005	0	0	---	---	13
14	---	---	0.913B	1.70	0.143	0.853	0.126	0.005	0	0	---	---	14
15	---	---	0.408B	1.08	0.138	0.550	0.111	0.005	0				15
16	---	---	0.254B	1.14	0.164	0.372	0.100	0.004	0	0	---	---	16
17	---	---	0.155B	0.862	0.139	0.265	0.092	0.004	0	0	---	---	17
18	---	---	0.162B	1.03	0.428	0.211	0.084	0.003	0	0	---	---	18
19	---	---	0.066B	1.61	0.444	0.254	0.078	0.002	0	0	---	---	19
20	---	---	0.040B	1.66	0.319	1.83	0.071	0.002	0	0	---	---	20
21	---	---	0.025B	1.28	0.245	2.50	0.064	0.001	0	0	---	---	21
22	---	---	0.025B	1.20	0.225	0.898	0.057	0.001	0	0	---	---	22
23	---	---	0.026B	0.974	0.215	0.600	0.051	0.003	0	0	---	---	23
24	---	---	0.019B	0.788	0.194	0.378	0.041	0.002	0	0	---	---	24
25	---	---	0.021B	0.640	0.175	0.265	0.038	0.002	0	0.001	---	---	25
26	---	---	0.021B	0.561	0.185	0.203	0.034	0.002	0	0.001	---	---	26
27	---	---	0.022B	0.428	0.233	0.171	0.030	0.002	0	0.001	---	---	27
28	---	---	0.027B	0.344	0.188	0.154	0.025	0.002	0	0.001	---	---	28
29	---	---	0.061B	0.292	0.157	0.139	0.024	0.001	0	0.001	---	---	29
30	---		1.56 B	0.260	0.147	0.124	0.021	0.001	0	0.002	---	---	30
31	---		9.78 B		0.135		0.018	0.001		0.001A		---	31
TOTAL	---	---	15.632	57.476	6.958	38.195	11.212	0.162	0	0.008	---	---	TOTAL
MEAN	---	---	0.504	1.92	0.225	1.27	0.362	0.005	0	0	---	---	MEAN
MAX	---	---	9.78	11.1	0.444	8.82	5.02	0.017	0	0.002	---	---	MAX
MIN	---	---	0	0.260	0.135	0.124	0.018	0.001	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.529
MAXIMUM DAILY, 11.1B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
14.0 AT 10:34 CST ON JUN 02 .

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 10 N
LONG 098 19 40 W

DRAINAGE AREA, 206 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	969
FEB	---	AUG	14.0
MAR	1 350	SEP	0
APR	4 970	OCT	0.691
MAY	601	NOV	---
JUN	3 300	DEC	---

TOTAL DISCHARGE, 11 200 dam³

ROUND LAKE AT OUTLET - STATION NO. 05RD011

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0.747A	0.725	0.748	1.434	2.451	---	---	1.419	0.991	0.684	0.588	1
2	---	0.744	0.716	0.750	1.420	2.483	---	---	1.403	0.979	0.680	0.572	2
3	---	0.756	0.714	0.753	1.408	2.516	---	---	1.405	0.966	0.673	0.565	3
4	---	0.773	0.713	0.750	1.399	2.540	---	---	1.388	0.955	0.666	0.564	4
5	---	0.775	0.707	0.748	1.391	2.573	---	---	1.366	0.943	0.658	0.565	5
6	---	0.770	0.703	0.747	1.389	2.608	---	---	1.348	0.925	0.649	0.566	6
7	---	0.769	0.699	0.746	1.398	2.633	---	---	1.327	0.914	0.644	0.566	7
8	---	0.769	0.698	0.744	1.438	2.655	---	1.810A	1.310	0.902	0.638	0.566	8
9	---	0.769	0.698	0.740	1.483	2.676	---	1.777	1.290	0.894	0.632	0.565	9
10	---	0.768	0.699	0.734	1.508	2.691	---	1.756	1.274	0.885	0.628	0.560	10
11	0.794A	0.764	0.701	0.731	1.530	2.704	---	1.736	1.258	0.872	0.615	0.558	11
12	0.794	0.759	0.704	0.730	1.559	2.728	---	1.723	1.233	0.862	0.606	0.556	12
13	0.791	0.748	0.711	0.730	1.580	2.745	---	1.706	1.219	0.845	0.603	0.556	13
14	0.789	0.736	0.716	0.735	1.601	---	---	1.691	1.204	0.834	0.603	0.556	14
15	0.789	0.738	0.739	0.740	1.628	---	---	1.664	1.185	0.821	0.598	0.557	15
16	0.786	0.737	0.769	0.750	1.667	---	---	1.650	1.167	0.808	0.595	0.559	16
17	0.785	0.730	0.778	0.760	1.746	---	---	1.634	1.153	0.796	0.594	0.559	17
18	0.782	0.730	0.779	0.778	1.802	---	---	1.615	1.137	0.786	0.589	0.558	18
19	0.781	0.731	0.776	0.850	1.849	---	---	1.603	1.121	0.781	0.582	0.551	19
20	0.778	0.736	0.776	0.967	1.899	---	---	1.591	1.104	0.771	0.581	0.546	20
21	0.768	0.739	0.777	1.046	1.952	---	---	1.575	1.113	0.765	0.580	0.542	21
22	0.766	0.739	0.772	1.131	2.008	---	---	1.557	1.110	0.758	0.590	0.542	22
23	0.767	0.739	0.754	1.225A	2.061	---	---	1.555	1.090	0.752	0.601	0.543	23
24	0.763	0.732	0.755	1.368	2.102	---	---	1.532	1.081	0.745	0.596	0.554	24
25	0.757	0.728	0.751	1.435	2.151	---	---	1.516	1.072	0.741	0.582	0.562	25
26	0.763	0.730	0.746	1.508	2.199	---	---	1.498	1.058	0.738	0.571	0.561	26
27	0.763	0.733	0.743	1.515	2.243	---	---	1.481	1.038	0.728	0.574	0.566	27
28	0.762	0.730	0.738	1.488	2.282	---	---	1.469	1.022	0.712	0.579	0.579	28
29	0.759		0.736	1.467	2.333	---	---	1.459	1.009	0.703	0.582	0.574	29
30	0.758		0.735	1.450	2.374	---	---	1.447	0.999	0.697	0.586	0.554	30
31	0.756		0.741		2.416		---	1.435		0.691		0.556	31
MEAN	---	0.747	0.734	0.962	1.782	---	---	---	1.197	0.825	0.612	0.560	MEAN
MAX	---	0.775	0.779	1.515	2.416	---	---	---	1.419	0.991	0.684	0.588	MAX
MIN	---	0.728	0.698	0.730	1.389	---	---	---	0.999	0.691	0.571	0.542	MIN

WATER LEVELS IN METRES

MINIMUM DAILY, 0.542 ON DEC 21

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 40 N
LONG 096 23 20 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW

RUSSELL LAKE NEAR HERRIOT - STATION NO. 05EB006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	323.689	323.582	323.489	323.376	323.323	323.489	323.543	323.532	323.434	323.291	323.254	323.220	1
2	323.689	323.576	323.478	323.374	323.317	323.496	323.544	323.534	323.433	323.265	323.249	323.215	2
3	323.689	323.575	323.467	323.373	323.315	323.506	323.529	323.519	323.434	323.291	323.254	323.209	3
4	323.686	323.577	323.465	323.365	323.317	323.511	323.537	323.522	323.436	323.293	323.253	323.211	4
5	323.681	323.570	323.464	323.359	323.321	323.509	323.546	323.520	323.422	323.293	323.250	323.216	5
6	323.680	323.566	323.461	323.356	323.322	323.504	323.547	323.518	323.411	323.290	323.251	323.210	6
7	323.675	323.563	323.458	323.352	323.328	323.507	323.543	323.517	323.421	323.288	323.249	323.208	7
8	323.673	323.562	323.455	323.344	323.336	323.513	323.541	323.497	323.399	323.285	323.249	323.211	8
9	323.672	323.563	323.463	323.340	323.345	323.502	323.546	323.488	323.395	323.291	323.243	323.209	9
10	323.665	323.558	323.463	323.337	323.355	323.513	323.547	323.488	323.391	323.286	323.236	323.202	10
11	323.667	323.553	323.454	323.335	323.363	323.495	323.556	323.484	323.372	323.291	323.231	323.196	11
12	323.655	323.546	323.452	323.330	323.368	323.491	323.566	323.487	323.366	323.295	323.225	323.196	12
13	323.646	323.546	323.450	323.326	323.376	323.496	323.557	323.483	323.373	323.287	323.219	323.196	13
14	323.647	323.541	323.448	323.321	323.384	323.518	323.554	323.476	323.371	323.301	323.225	323.193	14
15	323.647	323.534	323.439	323.321	323.389	323.530	323.548	323.472	323.365	323.309	323.223	323.187	15
16	323.641	323.531	323.437	323.315	323.397	323.523	323.544	323.462	323.369	323.299	323.218	323.184	16
17	323.637	323.527	323.434	323.311	323.405	323.519	323.538	323.453	323.367	323.292	323.218	323.180	17
18	323.630	323.524	323.429	323.308	323.415	323.523	323.541	323.453	323.363	323.289	323.218	323.178	18
19	323.625	323.516	323.426	323.302	323.427	323.514	323.531	323.455	323.342	323.281	323.210	323.175	19
20	323.621	323.517	323.419	323.298	323.438	323.512	323.524	323.458	323.336	323.285	323.208	323.169	20
21	323.627	323.517	323.416	323.300	323.448	323.504	323.532	323.449	323.337	323.283	323.208	323.169	21
22	323.626	323.508	323.411	323.297	323.463	323.513	323.530	323.447	323.338	323.282	323.221	323.169	22
23	323.622	323.504	323.408	323.308	323.473	323.527	323.534	323.447	323.331	323.286	323.224	323.168	23
24	323.620	323.500	323.407	323.310	323.480	323.515	323.525	323.447	323.329	323.296	323.222	323.165	24
25	323.613	323.497	323.397	323.305	323.486	323.511	323.530	323.433	323.330	323.295	323.220	323.163	25
26	323.615	323.500	323.390	323.302	323.492	323.517	323.529	323.430	323.323	323.287	323.214	323.158	26
27	323.607	323.493	323.388	323.305	323.484	323.519	323.530	323.433	323.309	323.288	323.213	323.154	27
28	323.598	323.492	323.387	323.301	323.491	323.532	323.533	323.431	323.302	323.273	323.212	323.157	28
29	323.595		323.387	323.317	323.500	323.543	323.534	323.425	323.311	323.289	323.207	323.155	29
30	323.593		323.388	323.322	323.505	323.543	323.535	323.415	323.300	323.267	323.218	323.149	30
31	323.588		323.381		323.499		323.534	323.407		323.260		323.147	31
MEAN	323.643	323.537	323.433	323.327	323.405	323.513	323.540	323.470	323.367	323.287	323.228	323.184	MEAN
MAX	323.689	323.582	323.489	323.376	323.505	323.543	323.566	323.534	323.436	323.309	323.254	323.220	MAX
MIN	323.588	323.492	323.381	323.297	323.315	323.489	323.524	323.407	323.300	323.260	323.207	323.147	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 323.411
MAXIMUM DAILY, 323.689 ON JAN 01
MINIMUM DAILY, 323.147 ON DEC 31
MAXIMUM INSTANTANEOUS,
323.689 AT 00:01 CST ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 20 24 N
LONG 101 21 46 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
1 080 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

RUSSELL RESERVOIR NEAR RUSSELL - STATION NO. 05ME803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	550.530A	550.468	550.501	550.459	550.400	550.324	550.279	---	1
2	---	---	---	---	550.528	550.467	550.497	550.455	550.397	550.321	550.279	---	2
3	---	---	---	---	550.526	550.453	550.490	550.450	550.411	550.316	550.280	---	3
4	---	---	---	---	550.520	550.450	550.498	550.444	550.407	550.311	550.280	---	4
5	---	---	---	550.131A	550.516	550.454	550.491	550.437	550.405	550.305	550.279	---	5
6	---	---	---	---	550.510	550.452	550.488	550.434	550.403	550.302	550.277	---	6
7	---	549.990A	---	---	550.508	550.452	550.501	550.429	550.401	550.299	550.277	---	7
8	---	---	---	---	550.500	550.472	550.507	550.425	550.392	550.297	550.278	---	8
9	---	---	---	---	550.496	550.494	550.502	550.415	550.388	550.297	550.278A	---	9
10	---	---	---	---	550.490	550.497	550.498	550.409	550.383	550.297	---	---	10
11	---	---	---	---	550.491	550.485	550.496	550.406	550.379	550.296	---	---	11
12	---	---	---	---	550.489	550.483	550.499	550.404	550.374	550.289	---	---	12
13	---	---	---	---	550.483	550.479	550.494	550.397	550.365	550.286	---	---	13
14	---	---	---	---	550.483	550.474	550.489	550.396	550.365	550.284	---	---	14
15	---	---	---	---	550.481	550.469	550.484	550.399	550.364	550.282	---	---	15
16	---	---	---	---	550.487	550.463	550.488	550.397	550.359	550.281	---	---	16
17	---	---	---	---	550.495	550.461	550.490	550.389	550.354	550.279	---	550.279A	17
18	---	---	---	---	550.493	550.464	550.487	550.385	550.344	550.279	---	---	18
19	---	---	---	---	550.490	550.464	550.478	550.383	550.341	550.277	---	---	19
20	---	---	---	---	550.496	550.462	550.474	550.381	550.341	550.281	---	---	20
21	---	---	549.999A	---	550.502	550.469	550.498	550.380	550.340	550.290	---	---	21
22	---	---	---	---	550.517	550.512	550.496	550.416	550.337	550.292	---	---	22
23	---	---	---	---	550.518	550.532	550.487	550.418	550.338	550.292	---	---	23
24	---	---	---	---	550.523	550.531	550.485	550.419	550.334	550.289	---	---	24
25	---	---	---	---	550.514	550.523	550.480	550.426	550.331	550.290	---	---	25
26	---	---	---	---	550.502	550.512	550.473	550.431	550.327	550.288	---	---	26
27	---	---	---	---	550.498	550.503	550.470	550.429	550.323	550.286	---	---	27
28	---	---	---	---	550.495	550.518	550.479	550.424	550.326	550.284	---	---	28
29	---		---	---	550.487	550.512	550.476	550.421	550.330	550.282	---	---	29
30	---		---	---	550.478	550.499	550.469	550.417	550.326	550.281	---	---	30
31	---		---		550.471		550.464	550.407		550.280		---	31
MEAN	---	---	---	---	550.501	550.482	550.488	550.416	550.363	550.292	---	---	MEAN
MAX	---	---	---	---	550.530	550.532	550.507	550.459	550.411	550.324	---	---	MAX
MIN	---	---	---	---	550.471	550.450	550.464	550.380	550.323	550.277	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 47 50 N
LONG 101 19 56 W

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1964

DRAINAGE AREA,
95.1 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	173	1 080	221	278	507	593	670	1 030	837	1 250	848	290	1
2	206	1 160	260	412	784	254	766	1 030	846	1 230	831	449	2
3	244	1 100	290	265	729	198	894	1 070	826	1 240	437	851	3
4	251	522	239	234	594	268	870	994	827	1 230	308	756	4
5	215	291	494	378	483	287	896	847	877	1 080	378	278	5
6	215	386	299	386	739	216	797	807	907	1 180	658	311	6
7	231	380	253	373	316	349	707	832	918	1 200	347	273	7
8	198	357	645	703	222	491	688	1 030	893	1 040	589	225	8
9	232	259	508	719	428	227	928	1 080	863	936	224	225	9
10	189	232	257	794	567	184	936	1 070	918	936	216	232	10
11	189	248	197	801	659	310	930	1 070	899	929	197	241	11
12	266	335	187	732	405	597	1 030	1 080	899	960	321	338	12
13	213	768	197	612	271	711	1 060	850	934	872	254	580	13
14	224	865	263	626	234	717	1 080	755	866	927	244	503	14
15	191	1 030	228	443	220	710	1 060	820	732	947	242	234	15
16	211	1 070	359	621	539	613	1 090	838	232	948	240	233	16
17	226	1 020	213	442	230	527	1 020	698	231	945	252	501	17
18	251	1 160	232	245	207	866	933	847	215	919	214	658	18
19	253	1 040	376	230	247	819	915	867	505	918	290	963	19
20	239	683	235	300	311	843	940	753	440	870	207	938	20
21	219	264	550	227	168	865	760	769	562	853	239	1 070	21
22	217	296	858	551	181	811	743	749	421	872	241	995	22
23	229	293	1 060	283	213	463	930	865	426	886	177	893	23
24	231	307	968	277	203	135	970	900	458	922	97.0	756	24
25	250	579	840	267	514	504	968	905	559	895	156	560	25
26	275	713	849	280	232	463	1 030	899	726	522	757	678	26
27	237	495	786	545	148	601	1 070	867	674	384	352	666	27
28	244	234	599	265	94.0	612	1 030	832	826	260	559	611	28
29	487		348	237	216	698	889	879	878	676	287	743	29
30	930		343	536	233	817	944	882	915	663	430	958	30
31	1 070		316		484		930	870		704		937	31
TOTAL	8 806	17 167	13 460	12 762	11 378.0	15 749	28 474	27 785	21 110	28 194	10 592.0	18 026	TOT
MEAN	284	613	434	425	367	525	919	896	704	909	353	581	MEA
MAX	1 070	1 160	1 060	801	784	866	1 090	1 080	934	1 250	848	1 070	MAX
MIN	173	232	187	227	94.0	135	670	698	215	260	97.0	225	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 585
MAXIMUM DAILY, 1 250 ON OCT 01
MINIMUM DAILY, 94.0 ON MAY 28

DATA CONTRIBUTED BY -
MANITOBA HYDRO

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 53 09 50 N
LONG 099 20 56 W
DRAINAGE AREA, 364 000 km²

REGULATED SINCE 1964

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	761 000	JUL	2 460 000
FEB	1 480 000	AUG	2 400 000
MAR	1 160 000	SEP	1 820 000
APR	1 100 000	OCT	2 440 000
MAY	983 000	NOV	915 000
JUN	1 360 000	DEC	1 560 000

TOTAL DISCHARGE, 18 400 000 dam³

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	241B	347B	399B	457B	917	909	1 460	1 260	599	378	439	293B	1
2	223B	360B	408B	455B	880	940	1 460	1 230	612	376	446	291B	2
3	213B	373B	414B	455B	883	961	1 470	1 210	568	405	443	280B	3
4	219B	372B	429B	454B	905	942	1 490	1 190	539	338	435	271B	4
5	228B	352B	440B	459B	921	943	1 490	1 160	524	377	434	273B	5
6	240B	328B	444B	471B	895	957	1 520	1 130	523	425	428B	276B	6
7	254B	313B	447B	490B	904	963	1 560	1 080	551	414	424B	273B	7
8	259B	307B	453B	511B	903	972	1 600	1 040	536	387	420B	278B	8
9	243B	317B	463B	532B	881	970	1 620	1 020	551	360	415B	289B	9
10	238B	335B	467B	556B	898	973	1 660	989	534	344	411B	289B	10
11	254B	350B	470B	583B	919	990	1 680	946	504	329	403B	279B	11
12	275B	369B	473B	615B	931	992	1 690	903	513	305	395B	275B	12
13	285B	386B	469B	672B	931	1 060	1 700	879	548	386	387B	279B	13
14	293B	384B	460B	729B	907	1 210	1 690	871	541	408	379B	287B	14
15	300B	369B	456B	798B	875	1 230	1 690	878	521	426	372B	292B	15
16	305B	363B	455B	867B	848	1 230	1 680	844	535	446	360B	295B	16
17	307B	362B	458B	944B	842	1 230	1 690	798	568	446	349B	300B	17
18	316B	355B	460B	1 030B	833	1 240	1 690	764	552	445	338B	298B	18
19	319B	353B	462B	1 120B	830	1 250	1 680	732	531	489	327B	294B	19
20	322B	350B	469B	1 210B	859	1 260	1 680	703	519	507	317B	296B	20
21	322B	343B	476B	1 310B	897	1 280	1 670	697	507	503	300B	296B	21
22	318B	346B	477B	1 410B	904	1 310	1 640	699	487	513	294B	291B	22
23	322B	360B	472B	1 510B	880	1 330	1 610	691	445	516	268B	256B	23
24	328B	372B	469B	1 360B	865	1 360	1 580	659	401	464	253B	243B	24
25	342B	373B	473B	1 220B	873	1 400	1 530	641	385	461	238B	245B	25
26	357B	379B	478B	1 070	873	1 410	1 490	627	375	475	224B	241B	26
27	362B	383B	481B	1 030	861	1 410	1 460	613	347	487	239B	233B	27
28	357B	388B	477B	1 000	866	1 410	1 410	580	354	490	256B	221B	28
29	354B		470B	984	887	1 440	1 370	560	373	487	271B	214B	29
30	353B		465B	959	878	1 450	1 320	570	395	441	284B	209B	30
31	347B		460B		901		1 270	605		446		203B	31
TOTAL	9 096	9 989	14 194	25 261	27 447	35 022	48 550	26 569	14 938	13 274	10 539	8 350	TOT
MEAN	293	357	458	842	885	1 170	1 570	857	498	428	351	269	MEA
MAX	362	388	481	1 510	931	1 450	1 700	1 260	612	516	446	300	MAX
MIN	213	307	399	454	830	909	1 270	560	347	305	224	203	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 666
MAXIMUM DAILY, 1 700 ON JUL 13
MINIMUM DAILY, 203B ON DEC 31

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 50 30 N
LONG 101 11 10 W
DRAINAGE AREA, 347 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	786 000	JUL	4 190 000
FEB	863 000	AUG	2 300 000
MAR	1 230 000	SEP	1 290 000
APR	2 180 000	OCT	1 150 000
MAY	2 370 000	NOV	911 000
JUN	3 030 000	DEC	721 000

TOTAL DISCHARGE, 21 000 000 dam³

SCHIST LAKE NEAR CHANNING - STATION NO. 05KG004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	291.839	291.949	291.972	291.857	291.751	291.634	---	---	1
2	---	---	---	---	291.842	291.945	291.974	291.851	291.746	291.635	---	---	2
3	---	---	---	---	291.846	291.945	291.972	291.839	291.740	291.645	---	---	3
4	---	---	---	---	291.854	291.947	291.977	291.837	291.738	291.638	---	---	4
5	---	---	---	---	291.868	291.939	291.982	291.835	291.728	291.635	---	---	5
6	---	---	---	---	291.889	291.935	291.980	291.834	291.722	291.628	---	---	6
7	---	---	---	---	291.909	291.937	291.979	291.830	291.720	291.627	---	---	7
8	---	---	---	---	291.927	291.936	291.979	291.819	291.704	291.627	---	---	8
9	---	---	---	---	291.943	291.931	291.984	291.815	291.703	291.629	---	---	9
10	---	---	---	---	291.953	291.936	291.985	291.813	291.702	291.625	---	---	10
11	---	---	---	---	291.965	291.952	291.983	291.808	291.694	291.634	---	---	11
12	---	---	---	---	291.969	291.960	291.979	291.806	291.696	291.644	---	---	12
13	---	---	---	---	291.974	291.968	291.974	291.799	291.693	291.648	---	---	13
14	---	---	291.769A	---	291.977	291.951	291.961	291.795	291.685	291.651	---	---	14
15	---	---	---	---	291.978	291.957	291.951	291.796	291.683	291.649	---	---	15
16	---	---	---	---	291.980	291.955	291.942	291.789	291.686	291.645	---	---	16
17	---	---	---	---	291.983	291.955	291.934	291.785	291.684	291.646	---	---	17
18	---	---	---	291.726A	291.982	291.954	291.928	291.784	291.669	291.652	---	---	18
19	---	---	---	---	291.980	291.949	291.917	291.779	291.664	291.648	---	---	19
20	---	---	---	---	291.979	291.944	291.910	291.778	291.664	291.646	---	---	20
21	---	---	---	291.716A	291.979	291.941	291.908	291.776	291.662	291.646	---	---	21
22	---	---	---	291.723	291.975	291.941	291.904	291.777	291.661	291.649	---	---	22
23	---	---	---	291.734	291.974	291.943	291.901	291.774	291.660	291.647	---	---	23
24	---	---	---	291.747	291.973	291.939	291.890	291.770	291.654	291.652	---	---	24
25	---	---	---	291.759	291.969	291.935	291.890	291.760	291.652	291.649	---	---	25
26	---	---	---	291.779	291.968	291.941	291.884	291.758	291.644	291.639	---	---	26
27	---	---	---	291.794	291.962	291.944	291.882	291.758	291.640	291.634	---	---	27
28	---	---	---	291.802	291.964	291.941	291.862	291.756	291.640	291.646	---	---	28
29	---		---	291.824	291.962	291.959	291.859	291.748	291.645	291.638	---	---	29
30	---		---	291.833	291.961	291.972	291.856	291.747	291.640	291.636	---	---	30
31	---		---		291.959		291.851	291.745		291.637A		---	31
MEAN	---	---	---	---	291.945	291.946	291.934	291.794	291.686	291.641	---	---	MEAN
MAX	---	---	---	---	291.983	291.972	291.985	291.857	291.751	291.652	---	---	MAX
MIN	---	---	---	---	291.839	291.931	291.851	291.745	291.640	291.625	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 291.985 ON JUL 10
MINIMUM DAILY, 291.625 ON OCT 10
MAXIMUM INSTANTANEOUS,
291.989 AT 12:46 CST ON JUL 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 45 20 N
LONG 101 49 30 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
411 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1938 ADJ.)

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	6.12 B	0.003	0	0	---	---	---	---	---	1
2	---	---	0 B	3.69	0.002	0	0	---	---	---	---	---	2
3	---	---	0 B	2.49	0.007	0	0	---	---	---	---	---	3
4	---	---	0 B	3.03	0.008	0	0.001	---	---	---	---	---	4
5	---	---	0 B	1.53	0.002	0	0.001	---	---	---	---	---	5
6	---	---	0 B	0.998	0.001	0	0.002	---	---	---	---	---	6
7	---	---	0 B	0.736	0	0	0.003	---	---	---	---	---	7
8	---	---	0 B	0.493	0	0	0.003	---	---	---	---	---	8
9	---	---	0 B	0.384	0	0	0.001A	---	---	---	---	---	9
10	---	---	0 B	0.299	0	0	---	---	---	---	---	---	10
11	---	---	0 B	0.218	0	0	---	---	---	---	---	---	11
12	---	---	0 B	0.170	0	0	---	---	---	---	---	---	12
13	---	---	0 B	0.103	0	0	---	---	---	---	---	---	13
14	---	---	0.002B	0.075	0	0	---	---	---	---	---	---	14
15	---	---	0.012B	0.061	0	0	---	---	---	---	---	---	15
16	---	---	0.007B	0.059	0.003	0	---	---	---	---	---	---	16
17	---	---	0.003B	0.039	0.004	0.006	---	---	---	---	---	---	17
18	---	---	0.004B	0.031	0.003	0.014	---	---	---	---	---	---	18
19	---	---	0.003B	0.026	0.002	0.165	---	---	---	---	---	---	19
20	---	---	0.004B	0.025	0.002	0.143	---	---	---	---	---	---	20
21	---	---	0.004B	0.026	0.002	0.054	---	---	---	---	---	---	21
22	---	---	0.003B	0.025	0.002	0.013	---	---	---	---	---	---	22
23	---	---	0.002B	0.029	0.002	0.004	---	---	---	---	---	---	23
24	---	---	0.001B	0.028	0.002	0.001	---	---	---	---	---	---	24
25	---	---	0 B	0.026	0.001	0	---	---	---	---	---	---	25
26	---	---	0 B	0.054	0	0	---	---	---	---	---	---	26
27	---	---	0 B	0.022	0	0	---	---	---	---	---	---	27
28	---	---	0 B	0.009	0	0	---	---	---	---	---	---	28
29	---	---	0.010B	0.007	0	0	---	---	---	---	---	---	29
30	---		0.089B	0.005	0	0	---	---	---	---	---	---	30
31	---		2.38 B		0		---	---		---		---	31
TOTAL	---	---	2.524	20.808	0.046	0.400	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.081	0.694	0.002	0.013	---	---	---	---	---	---	MEAN
MAX	---	---	2.38	6.12	0.008	0.165	---	---	---	---	---	---	MAX
MIN	---	---	0	0.005	0	0	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.195
MAXIMUM DAILY, 6.12B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
8.26B AT 11:31 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 16 16 N
LONG 101 23 04 W

DRAINAGE AREA, 187 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	218	SEP	---
APR	1 800	OCT	---
MAY	3.97	NOV	---
JUN	34.5	DEC	---

TOTAL DISCHARGE, 2 060 dam³

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	159B	131B	110 B	93.2B	96.1B	706E	758	550	372	381	287B	266B	1
2	158B	130B	109 B	92.8B	96.3B	707E	764	542	370	376	287B	249B	2
3	157B	129B	109 B	92.5B	95.5B	708E	768	547	371	378	292B	233B	3
4	156B	128B	108 B	92.0B	95.5B	709E	759	538	367	371	272B	239B	4
5	155B	127B	107 B	93.3B	94.7B	707E	759	527	373	373	273B	2443	5
6	154B	126B	106 B	93.7B	94.3B	706E	757	517	366	389	275B	236B	6
7	153B	125B	106 B	93.2B	94.5B	704E	751	504	369	378	284B	236B	7
8	152B	125B	105 B	92.0B	94.3B	702E	742	498	380	376	288B	234B	8
9	151B	124B	104 B	91.5B	94.4B	699E	734	489	382	378	307B	229B	9
10	150B	123B	104 B	91.9B	94.1B	696E	734	483	378	382	262B	224B	10
11	149B	123B	103 B	91.4B	94.0B	695E	722	477	377	393	239B	217B	11
12	148B	122B	103 B	89.7B	94.0B	694E	719	465	371	356B	267B	220B	12
13	147B	121B	102 B	89.5B	93.4B	693E	711	458	369	323B	237B	217B	13
14	146B	120B	102 B	90.5B	93.0B	691E	697	450	366	354B	247B	214B	14
15	146B	120B	102 B	90.8B	93.8B	690E	684	446	368	388B	241B	209B	15
16	145B	119B	101 B	89.8B	94.3B	690E	673	439	367	387B	241B	207B	16
17	144B	118B	101 B	89.3B	93.9B	691E	665	430	369	372B	240B	206B	17
18	143B	118B	99.9B	88.0B	94.5B	695E	656	417	368	357B	250B	204B	18
19	142B	117B	99.5B	87.3B	95.2B	699A	647	407	375	353B	249B	203B	19
20	141B	116B	99.0B	86.5B	100 B	711	640	404	381	363B	242B	201B	20
21	140B	116B	98.5B	87.3B	144 B	715	629	398	382	352B	256B	200B	21
22	139B	115B	98.0B	87.0B	227 B	722	623	391	380	339B	273B	199B	22
23	138B	114B	97.5B	88.3B	471 B	734	614	392	380	347B	269B	198B	23
24	137B	113B	97.1B	91.6B	617 E	740	607	388	380	350B	261B	196B	24
25	137B	113B	96.6B	93.4B	667 E	738	596	400	378	348B	249B	195B	25
26	136B	112B	96.1B	94.6B	684 E	750	588	406	378	348B	240B	193B	26
27	135B	111B	95.6B	95.3B	689 E	753	578	403	380	339B	250B	192B	27
28	134B	111B	95.1B	95.0B	695 E	750	575	395	378	297B	253B	191B	28
29	133B		94.7B	95.2B	700 E	747	580	391	378	319B	268B	189B	29
30	132B		94.2B	96.0B	702 E	755	582	387	379	321B	273B	188B	30
31	131B		93.7B		704 E		567	385		286B		187B	31
TOTAL	4 488	3 367	3 137.5	2 743.4	8 195.8	21 396	20 879	13 924	11 232	11 074	7 872	6 616	TOTAL
MEAN	145	120	101	91.4	264	713	674	449	374	357	262	213	MEAN
MAX	159	131	110	96.0	704	755	768	550	382	393	307	266	MAX
MIN	131	111	93.7	86.5	93.0	690	567	385	366	286	237	187	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 315
MAXIMUM DAILY, 768 ON JUL 03
MINIMUM DAILY, 86.5B ON APR 20
MAXIMUM INSTANTANEOUS,
771 AT 12:44 CST ON JUL 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 53 30 N
LONG 096 16 31 W
DRAINAGE AREA, 48 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	388 000	JUL 1	800 000
FEB	291 000	AUG 1	200 000
MAR	271 000	SEP	970 000
APR	237 000	OCT	957 000
MAY	708 000	NOV	680 000
JUN 1	850 000	DEC	572 000

TOTAL DISCHARGE, 9 920 000 dam³

SEINE RIVER AT STE. ANNE - STATION NO. 05OH802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	249.001E	249.045E	249.034E	248.913E	248.683	248.802	---	---	1
2	---	---	---	---	249.000E	249.047E	249.034E	248.915	248.683E	248.805	---	---	2
3	---	---	---	---	249.000	249.048E	249.034	248.912	248.682E	248.804E	---	---	3
4	---	---	---	---	248.994	249.050E	249.031	248.854	248.681E	248.802E	---	---	4
5	---	---	---	---	248.994	249.052	249.028	248.844E	248.680	248.801E	---	---	5
6	---	---	---	---	248.994E	249.046E	249.030E	248.834E	248.692	248.799	---	---	6
7	---	---	---	---	248.994E	249.040E	249.032E	248.825E	248.694E	248.798E	---	---	7
8	---	---	---	---	248.994E	249.034	249.035E	248.815E	248.695	248.798E	---	---	8
9	---	---	---	---	248.994	249.028	249.037	248.805	248.700E	248.797E	---	---	9
10	---	---	---	---	248.996E	---	249.033E	248.817	248.705	248.796	---	---	10
11	---	---	---	---	248.997	---	249.029E	248.824	248.706E	248.775E	---	---	11
12	---	---	---	---	248.997	---	249.025E	248.802E	248.708	248.753	---	---	12
13	---	---	---	---	248.999E	---	249.022	248.781E	248.706E	248.778	---	---	13
14	---	---	---	---	249.001E	---	248.982	248.759E	248.704E	248.772E	---	---	14
15	---	---	---	---	249.003	---	248.952E	248.738E	248.702	248.766E	---	---	15
16	---	---	---	---	249.009E	---	248.922E	248.717	248.710E	248.759E	---	---	16
17	---	---	---	---	249.016	---	248.892E	248.708	248.718E	248.753	---	---	17
18	---	---	---	---	249.020E	---	248.862E	248.717	248.727E	248.752E	---	---	18
19	---	---	---	---	249.025	---	248.833	248.713E	248.735	248.750	---	---	19
20	---	---	---	---	249.026E	---	248.839	248.709E	248.740E	248.744	---	---	20
21	---	---	---	---	---	249.027E	249.028	248.845	248.705	248.744	248.742E	---	21
22	---	---	---	248.976	249.028E	249.022	248.854	248.701E	248.769	248.740E	---	---	22
23	---	---	---	248.997	249.030E	249.019	248.878	248.696E	248.773E	248.738	---	---	23
24	---	---	---	---	249.031	249.017E	248.894E	248.692	248.777E	248.736E	---	---	24
25	---	---	---	---	249.031	249.016	248.909	248.680	248.781	248.734E	---	---	25
26	---	---	---	---	249.034	249.019E	248.909E	248.679E	248.782E	248.732	---	---	26
27	---	---	---	248.918	249.036E	249.023E	248.910E	248.677E	248.784	248.735	---	---	27
28	---	---	---	248.939E	249.037E	249.027E	248.910E	248.676E	248.781	---	---	---	28
29	---		---	248.960E	249.039E	249.031	248.911E	248.674	248.788E	---	---	---	29
30	---		---	248.980E	249.041E	249.034	248.911E	248.677	248.795E	---	---	---	30
31	---		---		249.043E		248.912E	248.680E		---		---	31
MEAN	---	---	---	---	249.014	---	248.953	248.759	248.728	---	---	---	MEAN
MAX	---	---	---	---	249.043	---	249.037	248.915	248.795	---	---	---	MAX
MIN	---	---	---	---	248.994	---	248.833	248.674	248.680	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 39 51 N
LONG 096 38 56 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1962
DRAINAGE AREA,
693 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	11.1 B	0.296	0.521	0.902	0.034	0.034	0.238	---	---	1
2	---	---	0 B	7.96	0.298	1.55	0.779	0.021	0.027	0.230	---	---	2
3	---	---	0 B	8.31	0.422	14.0	0.663	0.011	0.020	0.230	---	---	3
4	---	---	0 B	7.27	0.437	14.7	0.556	0.008	0.016	0.208	---	---	4
5	---	---	0 B	9.37	0.457	14.3	0.482	0.005	0.010	0.186	---	---	5
6	---	---	0 B	3.53	0.463	13.7	0.440	0.003	0.007	0.140	---	---	6
7	---	---	0 B	2.61	0.481	12.0	0.453	0.002	0.005	0.099	---	---	7
8	---	---	0 B	2.34	0.501	10.5	0.409	0.001	0.005	0.083	---	---	8
9	---	---	0 B	1.78	0.549	11.5	0.535	0	0.004	0.072	---	---	9
10	---	---	0.004B	1.38	0.613	12.9	0.757	0	0.006	0.063	---	---	10
11	---	---	0.012B	1.29	0.582	12.8	0.651	0	0.005	0.053	---	---	11
12	---	---	0.086B	1.27	0.551	13.3	0.552	0	0.003	0.047	---	---	12
13	---	---	0.103B	1.35	0.531	16.4	0.438	0	0.001	0.045	---	---	13
14	---	---	0.111B	1.39	0.506	14.8	0.365	0	0	0.040	---	---	14
15	---	---	2.17 B	1.26	0.488	12.1	0.324	0	0	0.033	---	---	15
16	---	---	2.01 B	1.49	0.532	9.63	0.291	0	0	0.029	---	---	16
17	---	---	7.31 B	1.09	0.869	7.60	0.257	0	0.001	0.027	---	---	17
18	---	---	5.15 B	1.19	1.33	6.10	0.217	0	0.004	0.025	---	---	18
19	---	---	4.53 B	1.05	2.49	5.31	0.253	0	0.008	0.023	---	---	19
20	---	---	2.76 B	0.713	2.59	4.81	0.375	0	0.010	0.019	---	---	20
21	---	---	1.75 B	0.550	2.38	4.81	0.338	0	0.012	0.017	---	---	21
22	---	---	1.24 B	0.469	2.21	7.03	0.271	0.033	0.023	0.021	---	---	22
23	---	---	1.04 B	0.418	1.90	7.71	0.265	0.120	0.046	0.027	---	---	23
24	---	---	0.822B	0.376	1.91	5.73	0.194	0.081	0.065	0.025	---	---	24
25	---	---	0.634B	0.451	1.83	4.52	0.129	0.067	0.065	0.021	---	---	25
26	---	---	0.590B	0.885	1.50	3.68	0.116	0.057	0.061	0.018	---	---	26
27	---	---	0.545B	0.846	1.29	2.93	0.096	0.050	0.054	0.016	---	---	27
28	---	---	0.602B	0.812	1.09	2.12	0.081	0.044	0.109	0.015	---	---	28
29	---	---	0.957B	0.431	0.874	1.40	0.067	0.041	0.292	0.014A	---	---	29
30	---		2.68 B	0.318	0.732	1.04	0.055	0.040	0.266	0.014E	---	---	30
31	---		9.54 B		0.604		0.047	0.039		0.014E		---	31
TOTAL	---	---	44.646	73.299	31.306	249.091	11.358	0.657	1.159	2.092	---	---	TOTAL
MEAN	---	---	1.44	2.44	1.01	8.30	0.366	0.021	0.039	0.068	---	---	MEAN
MAX	---	---	9.54	11.1	2.59	16.4	0.902	0.120	0.292	0.238	---	---	MAX
MIN	---	---	0	0.318	0.296	0.521	0.047	0	0	0.014	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.69
MAXIMUM DAILY, 16.4 ON JUN 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
17.8 AT 07:53 CST ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 40 N
LONG 096 59 19 W
DRAINAGE AREA, 1 410 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	981
FEB	---	AUG	56.8
MAR	3 860	SEP	100
APR	6 330	OCT	181
MAY	2 700	NOV	---
JUN	21 500	DEC	---

TOTAL DISCHARGE, 35 700 dam³

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.65 B	0.357	0.238	0.392	0	0	0	---	---	1
2	---	---	0 B	2.52 B	0.345	2.43	0.221	0	0	0	---	---	2
3	---	---	0 B	2.15 B	0.364	7.34	0.124	0	0	0	---	---	3
4	---	---	0 B	1.89 B	0.409	10.2	0.098	0	0	0	---	---	4
5	---	---	0 B	2.20 B	0.403	10.5	0.070	0	0	0	---	---	5
6	---	---	0 B	0.982B	0.428	10.3	0.030	0	0	0	---	---	6
7	---	---	0 B	0.789B	0.459	9.71	0.069	0	0	0	---	---	7
8	---	---	0 B	0.661B	0.542	7.82	0.160	0	0	0	---	---	8
9	---	---	0 B	0.601B	0.595	8.61	0.509	0	0	0	---	---	9
10	---	---	0 B	0.710B	0.541	9.47	0.334	0	0	0	---	---	10
11	---	---	0 B	0.663B	0.487	9.31	0.077	0	0	0	---	---	11
12	---	---	0.001B	0.572B	0.406	9.32	0.009	0	0	0	---	---	12
13	---	---	0.017B	0.556	0.392	10.6	0.003	0	0	0	---	---	13
14	---	---	0.020B	0.565	0.373	9.53	0.002	0	0	0	---	---	14
15	---	---	1.75 B	0.684A	0.443	7.77	0.002	0	0	0	---	---	15
16	---	---	4.00 B	0.727	0.592	6.03	0.001	0	0	0	---	---	16
17	---	---	2.98 B	0.467A	0.743	4.78	0.001	0	0	0	---	---	17
18	---	---	1.23 B	0.132A	1.27	3.92	0	0	0	0	---	---	18
19	---	---	0.957B	0.002	2.02	3.47	0	0	0	0	---	---	19
20	---	---	0.873B	0.002	2.03	3.15	0	0	0	0	---	---	20
21	---	---	0.666B	0.002	1.72	4.21 A	0	0	0	0	---	---	21
22	---	---	0.746B	0.002	1.61	5.86	0	0	0	0	---	---	22
23	---	---	0.484B	0.002	1.63	5.18 A	0	0	0	0	---	---	23
24	---	---	0.728B	0.463A	1.69	4.18 A	0	0	0	0	---	---	24
25	---	---	0.546B	0.458	1.44	3.51	0	0	0	0	---	---	25
26	---	---	0.333B	0.478	1.24	2.97	0	0	0	0	---	---	26
27	---	---	0.275B	0.410	1.02	2.21	0	0	0	0	---	---	27
28	---	---	0.270B	0.044	0.760	1.28	0	0	0	0	---	---	28
29	---	---	0.305B	0.011	0.576	0.729	0	0	0	0	---	---	29
30	---		0.505B	0.121	0.396	0.538	0	0	0	0	---	---	30
31	---		1.19 B		0.287		0	0		0A		---	31
TOTAL	---	---	17.876	20.514	25.568	174.165	2.102	0	0	0	---	---	TOTAL
MEAN	---	---	0.577	0.684	0.825	5.81	0.068	0	0	0	---	---	MEAN
MAX	---	---	4.00	2.52	2.03	10.6	0.509	0	0	0	---	---	MAX
MIN	---	---	0	0.002	0.287	0.238	0	0	0	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.981
MAXIMUM DAILY, 10.6 ON JUN 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
11.2 AT 18:02 CST ON JUN 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 10 N
LONG 096 39 10 W
DRAINAGE AREA, 690 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	182
FEB	---	AUG	0
MAR	1 540	SEP	0
APR	1 770	OCT	0
MAY	2 210	NOV	---
JUN	15 000	DEC	---

TOTAL DISCHARGE, 20 700 dam³

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.064B	1.61 B	1.01 E	0.936	0.900	0.048	0	0	---	---	1
2	---	---	0.064B	2.16 B	1.06 E	3.48	0.729	0.046	0	0	---	---	2
3	---	---	0.085B	2.28 B	1.11 E	8.45	0.632	0.040	0	0	---	---	3
4	---	---	0.111B	2.32 B	1.15 E	11.3	0.600	0.025	0	0	---	---	4
5	---	---	0.136B	2.49 B	1.21 E	11.7	0.554	0.020	0	0	---	---	5
6	---	---	0.122B	1.08 B	1.26 E	11.2	0.536	0.024	0	0	---	---	6
7	---	---	0.152B	0.725B	1.31 A	9.32	0.585	0.019	0	0	---	---	7
8	---	---	0.196B	0.598B	1.34	8.50	0.574	0.011	0	0	---	---	8
9	---	---	0.225B	0.546B	1.32	8.85	0.720	0.005	0	0	---	---	9
10	---	---	0.304B	0.650B	1.23	9.58	0.681	0.003	0	0	---	---	10
11	---	---	0.577B	0.658B	1.14	9.03	0.519	0.002	0	0	---	---	11
12	---	---	1.14 B	0.661B	1.07	9.47	0.411	0.003	0	0	---	---	12
13	---	---	1.90 B	0.575B	1.04	10.7	0.351	0.002	0	0	---	---	13
14	---	---	1.47 B	0.540B	0.983	9.82	0.291	0.002	0	0	---	---	14
15	---	---	2.57 B	0.685B	1.18	8.06	0.256	0.002	0	0	---	---	15
16	---	---	4.10 B	0.606B	1.28	6.47	0.224	0.001	0	0	---	---	16
17	---	---	3.79 B	0.835B	1.43	5.24	0.199	0.002	0	0	---	---	17
18	---	---	3.78 B	0.773	2.26	4.48	0.169	0.002	0	0	---	---	18
19	---	---	2.00 B	0.822	2.82	4.02	0.147	0.001	0	0	---	---	19
20	---	---	0.982B	0.832	2.72	3.61	0.134	0.001	0	0	---	---	20
21	---	---	1.02 B	0.827	2.50	4.20	0.126	0.001	0	0.020	---	---	21
22	---	---	0.902B	0.862	2.37	5.78	0.128	0.001	0	0.147	---	---	22
23	---	---	0.959B	0.829	2.49	5.19	0.109	0.001	0	0.086	---	---	23
24	---	---	0.931B	0.961	2.47	4.15	0.098	0.001	0	0.052	---	---	24
25	---	---	0.514B	0.902E	2.25	3.32	0.084	0	0	0.041	---	---	25
26	---	---	0.369B	0.859E	2.13	2.83	0.070	0	0	0.039	---	---	26
27	---	---	0.315B	0.814E	1.86	2.44	0.062	0	0	0.036	---	---	27
28	---	---	0.325B	0.859E	1.61	1.73	0.086	0	0	0.026	---	---	28
29	---	---	0.351B	0.911E	1.39	1.38	0.068	0	0	0.022	---	---	29
30	---		0.534B	0.963E	1.18	1.13	0.047	0	0	0.025		---	30
31	---		0.863B		0.966		0.042	0		0.044A		---	31
TOTAL	---	---	30.871	29.913	49.139	186.166	10.152	0.263	0	0.538	---	---	TOTAL
MEAN	---	---	0.996	0.997	1.59	6.21	0.328	0.009	0	0.017	---	---	MEAN
MAX	---	---	4.10	2.49	2.82	11.7	0.900	0.048	0	0.147	---	---	MAX
MIN	---	---	0.064	0.540	0.966	0.936	0.042	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.25
MAXIMUM DAILY, 11.7 ON JUN 05
MINIMUM DAILY, 0 ON AUG 25
MAXIMUM INSTANTANEOUS,
11.9 AT 22:16 CST ON JUN 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 10 N
LONG 096 37 00 W
DRAINAGE AREA, 566 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	877
FEB	---	AUG	22.7
MAR	2 670	SEP	0
APR	2 580	OCT	46.5
MAY	4 250	NOV	---
JUN	16 100	DEC	---

TOTAL DISCHARGE, 26 500 dam³

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO. 05OH009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.076B	3.55 B	1.07	0.723E	0.741	0.067	0 E	0 E	---	---	1
2	---	---	0.110B	2.86 B	0.857	0.961A	0.779	0.064	0 E	0 E	---	---	2
3	---	---	0.129B	2.67 B	0.750	2.74 A	0.808	0.048	0 E	0 E	---	---	3
4	---	---	0.140B	2.69 B	0.746	3.54	0.748	0.046	0 A	0 A	---	---	4
5	---	---	0.151B	2.02 B	0.739	2.18	0.719	0.038	0 E	0 E	---	---	5
6	---	---	0.155B	1.40 B	0.728	1.45	0.742	0.025	0 A	0 E	---	---	6
7	---	---	0.150B	0.909B	0.726	1.17	0.801	0.022	0 E	0 E	---	---	7
8	---	---	0.151B	0.610B	0.725	1.23	0.797	0.018	0 E	0 E	---	---	8
9	---	---	0.166B	0.513B	0.730	1.41	0.799	0.013	0 E	0 E	---	---	9
10	---	---	0.177B	0.498B	0.720A	1.62	0.821	0.009	0 E	0 E	---	---	10
11	---	---	0.180B	0.433B	0.671E	1.53	0.766	0.007	0 E	0 A	---	---	11
12	---	---	0.177B	0.381B	0.668E	1.59	0.731	0.006	0 E	0 E	---	---	12
13	---	---	0.198B	0.365B	0.645E	2.03	0.719	0.005	0 E	0 E	---	---	13
14	---	---	0.230B	0.369B	0.650E	1.86	0.701	0.004E	0 E	0 E	---	---	14
15	---	---	0.271B	0.404B	0.673E	1.55	0.661	0.003E	0 E	0 E	---	---	15
16	---	---	0.467B	0.384B	0.673E	1.35	0.606	0.002E	0 E	0 E	---	---	16
17	---	---	0.477B	0.366B	0.684A	1.22	0.509	0.002E	0 E	0 E	---	---	17
18	---	---	0.598B	0.312B	0.712E	1.52	0.413	0.002E	0.001E	0 A	---	---	18
19	---	---	0.712B	0.300B	0.834E	1.16	0.353	0.002E	0.002E	0 E	---	---	19
20	---	---	0.942B	0.320B	0.797E	1.18	0.314	0.002E	0.002A	0 E	---	---	20
21	---	---	0.702B	1.15 B	0.718E	1.19	0.273	0.001E	0.002E	0.021E	---	---	21
22	---	---	0.598B	1.32 B	0.694E	1.25	0.221	0.001E	0.001E	0.150E	---	---	22
23	---	---	0.495B	1.31 B	0.697E	1.27	0.170	0.001E	0 E	0.090E	---	---	23
24	---	---	0.357B	0.832B	0.679A	1.17	0.134	0.001E	0 E	0.055E	---	---	24
25	---	---	0.282B	0.620B	0.647E	0.992	0.120	0.001E	0 E	0.026A	---	---	25
26	---	---	0.212B	0.499	0.647E	0.847	0.115	0.001E	0 E	0.026E	---	---	26
27	---	---	0.184B	0.327	0.663E	0.756	0.100	0.001E	0 E	0.026E	---	---	27
28	---	---	0.155B	0.221	0.668A	0.702	0.095	0.001E	0 E	0.026E	---	---	28
29	---	---	0.170B	0.310	0.676E	0.666	0.092	0.001E	0 E	0.026A	---	---	29
30	---		0.470B	1.09	0.707E	0.667	0.087	0.001E	0 E	0.030E	---	---	30
31	---		2.38 B		0.715E		0.081	0.001E		0.048E		---	31
TOTAL	---	---	11.662	29.033	22.309	41.224	15.016	0.396	0.008	0.524	---	---	TOTAL
MEAN	---	---	0.376	0.968	0.720	1.37	0.484	0.013	0	0.017	---	---	MEAN
MAX	---	---	2.38	3.55	1.07	3.54	0.821	0.067	0.002	0.150	---	---	MAX
MIN	---	---	0.076	0.221	0.645	0.666	0.081	0.001	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.490
MAXIMUM DAILY, 3.55B ON APR 01
MINIMUM DAILY, 0E ON SEP 01
MAXIMUM INSTANTANEOUS,
4.19 AT 23:47 CST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 46 15 N
LONG 096 57 27 W
DRAINAGE AREA, 986 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1961

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 300
FEB	---	AUG	34.2
MAR	1 010	SEP	0.691
APR	2 510	OCT	45.3
MAY	1 930	NOV	---
JUN	3 560	DEC	---

TOTAL DISCHARGE, 10 400 dam³

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	15.0 B	0.081	0.003	0.354	0	0	0	---	---	1
2	---	---	0 B	20.2 B	0.067	0.169	0.331	0	0	0	---	---	2
3	---	---	0 B	14.7 B	0.091	0.616	1.56	0	0	0	---	---	3
4	---	---	0 B	8.09 B	0.085	0.438	0.698	0	0	0	---	---	4
5	---	---	0 B	4.81 B	0.100	0.351	0.333	0	0	0	---	---	5
6	---	---	0 B	4.32 B	0.095	0.367	0.212	0	0	0	---	---	6
7	---	---	0 B	3.13 B	0.070	0.372	0.332	0	0	0	---	---	7
8	---	---	0 B	2.12 B	0.058	0.435	0.291	0	0	0	---	---	8
9	---	---	0 B	1.52 B	0.044	0.643	0.207	0	0	0	---	---	9
10	---	---	0 B	1.82 B	0.042	0.583	0.153	0	0	0	---	---	10
11	---	---	0 B	1.47 B	0.041	0.447	0.121	0	0	0	---	---	11
12	---	---	0 B	1.41 B	0.036	0.597	0.101	0	0	0	---	---	12
13	---	---	0 B	1.22 B	0.046	0.518	0.096	0	0	0	---	---	13
14	---	---	0 B	1.08 B	0.044	0.597	0.068	0	0	0	---	---	14
15	---	---	0 B	1.05 B	0.045	0.529	0.056	0	0	0	---	---	15
16	---	---	0 B	1.01	0.053	0.633	0.040	0	0	0	---	---	16
17	---	---	0 B	0.960	0.055	0.547	0.068	0	0	0	---	---	17
18	---	---	0 B	0.859	0.051	0.526	0.066	0	0	0	---	---	18
19	---	---	0 B	0.656	0.058	0.462	0.041	0	0	0	---	---	19
20	---	---	0 B	0.574	0.103	0.287	0.063	0	0	0	---	---	20
21	---	---	0 B	0.514	0.109	0.139	0.068	0	0	0	---	---	21
22	---	---	0 B	0.382	0.109	0.200	0.062	0	0	0	---	---	22
23	---	---	0 B	0.310	0.127	0.222	0.065	0	0	0	---	---	23
24	---	---	0 B	0.249	0.129	0.220	0.066	0	0	0	---	---	24
25	---	---	0 B	0.231	0.118	0.318	0.064	0	0	0	---	---	25
26	---	---	0 B	0.201	0.107	1.01	0.056	0	0	0	---	---	26
27	---	---	0.013B	0.189	0.095	1.35	0.054	0	0	0	---	---	27
28	---	---	0.023B	0.175	0.075	0.857	0.044	0	0	0	---	---	28
29	---	---	0.056B	0.150	0.051	0.595	0.015	0	0	0	---	---	29
30	---		0.430B	0.110	0.031	0.432	0.005	0	0	0A	---	---	30
31	---		4.83 B		0.015		0.001	0		0E		---	31
TOTAL	---	---	5.358	88.510	2.231	14.463	5.691	0	0	0	---	---	TOTAL
MEAN	---	---	0.173	2.95	0.072	0.482	0.184	0	0	0	---	---	MEAN
MAX	---	---	4.83	20.2	0.129	1.35	1.56	0	0	0	---	---	MAX
MIN	---	---	0	0.110	0.015	0.003	0.001	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.475
MAXIMUM DAILY, 20.2B ON APR 02
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
26.2 AT 02:27 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 21 17 N
LONG 097 25 18 W
DRAINAGE AREA, 648 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	492
FEB	---	AUG	0
MAR	463	SEP	0
APR	7 650	OCT	0
MAY	193	NOV	---
JUN	1 250	DEC	---

TOTAL DISCHARGE, 10 000 dam³

SHANNON CREEK NEAR WINKLER - STATION NO. 05OF022

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	7.05 B	0.019	0	0.012	0E	0	0A	---	---	1
2	---	---	0 B	5.20 B	0.018	0	0.015	0E	0	0A	---	---	2
3	---	---	0 B	3.93 B	0.023	0.006	0.057	0E	0	0A	---	---	3
4	---	---	0 B	2.48 B	0.023	0.007	0.012	0E	0	0A	---	---	4
5	---	---	0 B	1.78 B	0.018	0.203	0.005	0E	0	0A	---	---	5
6	---	---	0 B	1.23 B	0.013	0.193	0.003	0E	0	0A	---	---	6
7	---	---	0 B	0.875B	0.059	0.164	0.005	0E	0	0A	---	---	7
8	---	---	0 B	0.610B	0.076	0.176	0.003	0E	0	0A	---	---	8
9	---	---	0 B	0.450B	0.052	0.122	0.002	0E	0A	0A	---	---	9
10	---	---	0 B	0.317B	0.032	0.095	0.003	0E	0A	0A	---	---	10
11	---	---	0.013B	0.213B	0.018	0.077	0.003	0E	0A	0A	---	---	11
12	---	---	0.022B	0.152	0.012	0.105	0.001	0E	0A	0A	---	---	12
13	---	---	0.037B	0.119	0.020	0.140	0	0E	0A	0A	---	---	13
14	---	---	0.020B	0.089	0.020	0.115	0	0E	0A	0A	---	---	14
15	---	---	0 B	0.134	0.015	0.242	0 A	0A	0A	0A	---	---	15
16	---	---	0 B	0.169	0.017	0.284	0 E	0	0A	0A	---	---	16
17	---	---	0 B	0.156	0.021	0.236	0 E	0	0A	0A	---	---	17
18	---	---	0 B	0.145	0.021	0.175	0 E	0	0A	0A	---	---	18
19	---	---	0.007B	0.102	0.017	0.130	0 E	0	0A	0A	---	---	19
20	---	---	0.006B	0.072	0.014	0.112	0.002E	0	0A	0A	---	---	20
21	---	---	0.003B	0.110	0.011	0.135	0.007E	0	0A	0A	---	---	21
22	---	---	0.002B	0.141	0.009	0.270	0.013E	0	0A	0A	---	---	22
23	---	---	0 B	0.135	0.007	0.462	0.021E	0	0A	0A	---	---	23
24	---	---	0 B	0.106	0.005	0.349	0.016E	0	0A	0A	---	---	24
25	---	---	0 B	0.100	0.003	0.232	0.012E	0	0A	0A	---	---	25
26	---	---	0 B	0.082	0.004	0.159	0.009E	0	0A	0A	---	---	26
27	---	---	0 B	0.067	0.003	0.111	0.005E	0	0A	0A	---	---	27
28	---	---	0.001B	0.051	0.002	0.074	0.001E	0	0A	0A	---	---	28
29	---	---	0.004B	0.033	0.001	0.044	0 E	0	0A	0A	---	---	29
30	---		0.010B	0.024	0	0.022	0 E	0	0A	0	---	---	30
31	---		0.275B		0		0 E	0		0E		---	31
TOTAL	---	---	0.400	26.122	0.553	4.440	0.207	0	0	0	---	---	TOTAL
MEAN	---	---	0.013	0.871	0.018	0.148	0.007	0	0	0	---	---	MEAN
MAX	---	---	0.275	7.05	0.076	0.462	0.057	0	0	0	---	---	MAX
MIN	---	---	0	0.024	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.129
MAXIMUM DAILY, 7.05B ON APR 01
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 16 55 N
LONG 097 52 15 W
DRAINAGE AREA, 308 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	17.9
FEB	---	AUG	0
MAR	34.5	SEP	0
APR	2 260	OCT	0
MAY	47.8	NOV	---
JUN	384	DEC	---

TOTAL DISCHARGE, 2 740 dam³

SHARPE LAKE NEAR DELORAINE - STATION NO. 05NF805

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	---	---	---	---	656.668	656.636	656.677E	656.613	656.565E	656.491E	656.426	---	1
2	---	---	---	656.660	656.669E	656.636E	656.672	656.613E	656.555	656.486	656.426E	---	2
3	---	---	---	---	656.670	656.636E	656.682E	656.613	656.550E	656.486E	656.426	---	3
4	---	---	---	---	656.670E	656.636	656.692	656.608E	656.545	656.486	---	---	4
5	---	---	---	---	656.670	656.636E	656.687E	656.603	656.541E	656.481E	---	---	5
6	---	---	---	---	656.665E	656.635	656.681	656.593E	656.536	656.476	---	---	6
7	---	---	---	---	656.659	656.640E	656.686E	656.583	656.536E	656.476E	---	---	7
8	---	---	---	---	656.659E	656.645	656.691	656.573E	656.536	656.476	---	---	8
9	---	---	---	---	656.659	656.645E	656.671	656.563	656.531E	656.471E	---	---	9
10	---	---	---	---	656.649E	656.645	656.681	656.559E	656.526	656.466	---	---	10
11	---	---	---	---	656.639	656.640E	656.681E	656.554	656.525E	656.466E	---	---	11
12	---	---	---	---	656.639E	656.635	656.681	656.549E	656.523	656.466	---	---	12
13	---	---	---	---	656.638	656.635E	656.676E	656.544	656.515E	656.466E	---	---	13
14	---	---	---	---	656.633E	656.634	656.671	656.539E	656.506	656.466	---	---	14
15	---	---	---	---	656.628	656.629E	656.662E	656.534	656.506E	656.461E	---	---	15
16	---	---	---	---	656.663E	656.624	656.652	656.534E	656.506	656.456	---	---	16
17	---	---	---	---	656.698	656.659E	656.647E	656.534	656.511E	656.456E	---	---	17
18	---	---	---	---	656.698E	656.694	656.642	656.529E	656.516	656.456	---	---	18
19	---	---	---	---	656.698	656.699E	656.642E	656.524	656.516E	656.451E	---	---	19
20	---	---	---	---	656.693E	656.703	656.642	656.524E	656.516	656.446	---	---	20
21	---	---	---	---	656.687	656.703E	656.637E	656.524	656.516E	656.446E	---	---	21
22	---	---	---	---	656.682E	656.703	656.632	656.545E	656.516	656.446	---	---	22
23	---	---	---	---	656.677	656.698E	656.627E	656.565	656.511E	656.442E	---	---	23
24	---	---	---	---	656.677E	656.693	656.622	656.570E	656.506	656.438	---	---	24
25	---	---	---	---	656.677	656.688E	656.622E	656.575	656.506E	656.437E	---	---	25
26	---	---	---	---	656.672E	656.683	656.622	656.575E	656.506	656.436	---	---	26
27	---	---	---	---	656.667	656.688E	656.633E	656.575	656.501E	656.436E	---	---	27
28	---	---	---	---	656.661E	656.692	656.643	656.580E	656.496	656.436	---	---	28
29	---	---	---	---	656.656	656.687E	656.633E	656.585	656.496E	656.431E	---	---	29
30	---	---	---	---	656.651E	656.682E	656.623	656.580E	656.496	656.426	---	---	30
31	---	---	---	---	656.646		656.618E	656.575		656.426E		---	31
MEAN	---	---	---	---	656.665	656.662	656.656	656.566	656.520	656.458	---	---	MEA
MAX	---	---	---	---	656.698	656.703	656.692	656.613	656.565	656.491	---	---	MAX
MIN	---	---	---	---	656.628	656.624	656.618	656.524	656.496	656.426	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 656.703 ON JUN 20

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 02 42 N
LONG 100 19 39 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED

REGULATED SINCE 1959

DRAINAGE AREA,
19.9 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	1.02 B	0.846B	1.06B	1.63B	35.2	10.6	2.90	1.24	0.775	0.432	0.880	0.706B	
2	1.02 B	0.923B	1.04B	1.40B	32.5	9.51	2.74	1.20	0.814	0.482	0.875	0.703B	
3	1.01 B	0.973B	1.05B	2.90B	30.5	8.62	2.86	1.14	0.858A	0.508	0.882	0.812B	
4	0.993B	0.991B	1.05B	3.95B	28.9	8.07	2.72	1.08	0.826	0.515	0.879	0.773B	
5	0.985B	0.968B	1.08B	2.83B	26.1	7.73	2.59	1.05	0.743	0.523	0.805B	0.761B	
6	0.973B	0.944B	1.11B	3.50B	22.3	7.45	2.77	1.00	0.706	0.562	0.826B	0.688B	
7	0.847B	0.927B	1.13B	5.19B	17.9	7.18	3.04	0.964	0.677	0.586	0.843B	0.686B	
8	0.822B	0.900B	1.15B	4.69B	15.5	8.23	3.38	0.905	0.651	0.645	0.865B	0.648B	
9	0.822B	0.887B	1.15B	2.44B	14.3	7.98	3.69	0.851	0.637	0.773	0.832B	0.626B	
10	0.835B	0.869B	1.19B	2.09B	13.6	6.90	3.27	0.817	0.651	0.705	0.848B	0.589B	1
11	0.838B	0.899B	1.25B	2.25B	13.4	6.25	3.07	0.817	0.602	0.667	0.843B	0.595B	1
12	0.823B	0.920B	1.32B	2.57B	12.7	5.84	2.92	0.770	0.542	0.653	0.832B	0.572B	1
13	0.966B	0.900B	1.56B	3.11B	12.3	5.46	2.75	0.749	0.544	0.681	0.837B	0.579B	1
14	0.929B	0.904B	1.40B	4.26B	11.8	5.07	2.60	0.738	0.528	0.725	0.852B	0.597B	1
15	0.960B	0.941B	1.46B	5.19B	11.5	4.82	2.38	0.722	0.490A	0.733	0.871B	0.590B	1
16	0.918B	0.879B	1.45B	5.00B	12.0	4.57	2.22	0.713	0.476A	0.733	0.894B	0.612B	1
17	0.889B	0.996B	1.37B	6.79B	11.8	4.38	2.40	0.694	0.435A	0.768	0.843B	0.632B	1
18	0.860B	1.05 B	1.41B	12.1 B	11.3	4.23	2.25	0.645	0.376A	0.746	0.854B	0.642B	1
19	0.831B	1.06 B	1.44B	18.9	11.4	4.13	2.10	0.668	0.384	0.761	0.877B	0.637B	2
20	0.803B	1.10 B	1.44B	21.2	13.0	4.73	1.98	0.666	0.441	0.785	0.865B	0.636B	2
21	0.774B	1.07 B	1.48B	22.4	14.7	4.52	1.90	0.632	0.463	0.811	0.828B	0.606B	2
22	0.745B	1.01 B	1.59B	22.2	16.2	3.97	1.89	0.667	0.477	0.842	0.802B	0.595B	2
23	0.716B	1.04 B	1.92B	22.5	17.8	3.54	1.80	0.667	0.484	0.847	0.749B	0.540B	2
24	0.717B	1.02 B	2.25B	23.1	19.0	3.27	1.71	0.642	0.453	0.840	0.777B	0.530B	2
25	0.718B	1.04 B	2.25B	23.2	19.7	3.08	1.64	0.672	0.418	0.822	0.783B	0.540B	2
26	0.719B	1.09 B	1.84B	22.3	19.4	2.93	1.56	0.655	0.400	0.837	0.809B	0.500B	2
27	0.720B	1.10 B	1.59B	22.5	18.7	2.82	1.60	0.718	0.385	0.867	0.845B	0.512B	2
28	0.721B	1.09 B	1.43B	24.1	17.9	3.38	1.56	0.744	0.439	0.867	0.801B	0.609B	2
29	0.762B		1.34B	27.9	16.5	3.64	1.48	0.707	0.456	0.863	0.769B	0.628B	2
30	0.730B		1.82B	34.0	14.5	3.20	1.39	0.674	0.507	0.875	0.699B	0.579B	3
31	0.784B		2.12B		12.2		1.32	0.701		0.873		0.549B	3
TOTAL	26.255	27.337	44.74	356.19	544.6	166.10	72.48	24.908	16.633	22.327	24.965	19.272	TO
MEAN	0.847	0.976	1.44	11.9	17.6	5.54	2.34	0.804	0.554	0.720	0.832	0.622	ME
MAX	1.02	1.10	2.25	34.0	35.2	10.6	3.69	1.24	0.858	0.875	0.894	0.812	MA
MIN	0.716	0.846	1.04	1.40	11.3	2.82	1.32	0.632	0.376	0.432	0.699	0.500	MI

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.69
MAXIMUM DAILY, 35.2 ON MAY 01
MINIMUM DAILY, 0.376A ON SEP 18
MAXIMUM INSTANTANEOUS,
36.3 AT 07:30 CST ON MAY 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 40 N
LONG 101 19 05 W

DRAINAGE AREA, 2 000 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 270	JUL	6 260
FEB	2 360	AUG	2 150
MAR	3 870	SEP	1 440
APR	30 800	OCT	1 930
MAY	47 100	NOV	2 160
JUN	14 400	DEC	1 670

TOTAL DISCHARGE, 116 000 dam³

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.848B	1.57B	23.5	6.87	---	---	---	---	---	---	1
2	---	---	0.848B	1.62B	20.1	6.44	---	---	---	---	---	---	2
3	---	---	0.860B	1.63B	17.6	5.76	---	---	---	---	---	---	3
4	---	---	0.812B	1.70B	15.1	5.41	---	---	---	---	---	---	4
5	---	---	0.800B	1.91B	13.4	5.20	---	---	---	---	---	---	5
6	---	---	0.790B	1.72B	12.5	4.91	---	---	---	---	---	---	6
7	---	---	0.781B	1.78B	11.8	5.22	---	---	---	---	---	---	7
8	---	---	0.771B	2.10B	11.5	4.87	---	---	---	---	---	---	8
9	---	---	0.762B	1.80B	11.3	4.60A	---	---	---	---	---	---	9
10	---	---	0.752B	1.62B	11.0	4.33E	---	---	---	---	---	---	10
11	---	---	0.742B	1.82B	10.7	4.15E	---	---	---	---	---	---	11
12	---	---	0.733B	1.78B	10.2	3.96E	---	---	---	---	---	---	12
13	---	---	0.723B	1.71B	9.98	3.80E	---	---	---	---	---	---	13
14	---	---	0.980B	1.80B	9.29	3.69E	---	---	---	---	---	---	14
15	---	---	0.944B	1.87B	8.77	3.53E	---	---	---	---	---	---	15
16	---	---	0.829B	1.58B	9.18	3.39E	---	---	---	---	---	---	16
17	---	---	0.867B	1.64B	9.67	3.35E	---	---	---	---	---	---	17
18	---	---	0.918B	2.44B	11.3	3.50E	---	---	---	---	---	---	18
19	---	---	1.01 B	6.23B	14.2	3.44E	---	---	---	---	---	---	19
20	---	---	1.23 B	11.6 B	18.0	3.30E	---	---	---	---	---	---	20
21	---	---	1.26 B	15.2	20.4	3.12E	---	---	---	---	---	---	21
22	---	---	1.22 B	14.6	20.1	2.94E	---	---	---	---	---	---	22
23	---	---	1.20 B	16.1	19.3	2.78E	---	---	---	---	---	---	23
24	---	---	1.18 B	21.5	18.6	2.62E	---	---	---	---	---	---	24
25	---	---	1.22 B	26.2	17.4	2.71E	---	---	---	---	---	---	25
26	---	---	1.26 B	29.6	16.2	2.89E	---	---	---	---	---	---	26
27	---	---	1.15 B	33.1	14.0	2.76E	---	---	---	---	---	---	27
28	---	---	1.17 B	32.6	11.9	2.58E	---	---	---	---	---	---	28
29	---	---	1.34 B	28.8	9.98	2.49E	---	---	---	---	---	---	29
30	---		1.51 B	26.9	8.59	2.37E	---	---	---	---	---	---	30
31	---		1.55 B		7.61		---	---		---		---	31
TOTAL	---	---	31.060	294.52	423.17	117.08	---	---	---	---	---	---	TOTAL
MEAN	---	---	1.00	9.82	13.7	3.90	---	---	---	---	---	---	MEAN
MAX	---	---	1.55	33.1	23.5	6.87	---	---	---	---	---	---	MAX
MIN	---	---	0.723	1.57	7.61	2.37	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.10
MAXIMUM DAILY, 33.1 ON APR 27
MINIMUM DAILY, 0.723B ON MAR 13
MAXIMUM INSTANTANEOUS,
33.5 AT 13:42 CST ON APR 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 21 39 N
LONG 101 15 21 W
DRAINAGE AREA, 1 330 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	2 680	SEP	---
APR	25 400	OCT	---
MAY	36 600	NOV	---
JUN	10 100	DEC	---

TOTAL DISCHARGE, 74 800 dam³

SHOAL LAKE AT INDIAN BAY - STATION NO. 05PD004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	322.460	---	---	---	---	---	---	1
2	---	322.484	322.405	---	---	---	---	---	---	---	322.515	---	2
3	---	---	---	---	---	---	---	322.811	---	---	---	---	3
4	---	---	---	---	322.387	---	---	---	---	---	---	---	4
5	322.545	---	---	---	---	---	---	---	---	322.612	---	---	5
6	---	---	---	322.369	---	---	322.741	---	---	---	---	---	6
7	---	---	---	---	---	---	---	---	322.741	---	---	322.472	7
8	---	---	---	---	---	322.521	---	---	---	---	---	---	8
9	---	322.460	322.393	---	---	---	---	---	---	---	322.491	---	9
10	---	---	---	---	---	---	---	322.808	---	---	---	---	10
11	---	---	---	---	322.387	---	---	---	---	---	---	---	11
12	322.533	---	---	---	---	---	---	---	---	322.582	---	---	12
13	---	---	---	322.356	---	---	322.783	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	322.686	---	---	322.460	14
15	---	---	---	---	---	322.570	---	---	---	---	---	---	15
16	---	322.460	322.393	---	---	---	---	---	---	---	322.484	---	16
17	---	---	---	---	---	---	---	322.783	---	---	---	---	17
18	---	---	---	---	322.405	---	---	---	---	---	---	---	18
19	322.515	---	---	---	---	---	---	---	---	322.582	---	---	19
20	---	---	---	322.375	---	---	322.795	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	322.661	---	---	322.448	21
22	---	---	---	---	---	322.643	---	---	---	---	---	---	22
23	---	322.424	322.381	---	---	---	---	---	---	---	322.478	---	23
24	---	---	---	---	---	---	---	322.771	---	---	---	---	24
25	---	---	---	---	322.448	---	---	---	---	---	---	---	25
26	322.509	---	---	---	---	---	---	---	---	322.533	---	---	26
27	---	---	---	322.369	---	---	322.826	---	---	---	---	---	27
28	---	---	---	---	---	---	---	---	322.661	---	---	322.472	28
29	---		---	---	---	322.704	---	---	---	---	---	---	29
30	---		322.375	---	---	---	---	---	---	---	322.478	---	30
31	---		---		---		---	322.777		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 37 20 N
LONG 095 12 30 W
DATA CONTRIBUTED BY -
GREATER WINNIPEG WATER DISTRICT

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
969 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SHOAL LAKE AT SHOAL LAKE - STATION NO. 05MG007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	547.005	547.080	547.124	547.085	546.990	546.929	---	---	1
2	---	---	---	---	547.015	547.034	547.109	547.080	546.993	546.929	---	---	2
3	---	---	---	---	547.026	547.055	547.115	547.075	546.994	546.926	---	---	3
4	---	---	---	---	547.035	547.065	547.109	547.071	546.996	546.916	---	---	4
5	---	---	---	---	547.046	547.067	547.106	547.067	546.995	546.910	---	---	5
6	---	---	---	---	547.062	547.069	547.118	547.064	546.987	546.911	---	---	6
7	---	---	---	---	547.060	547.066	547.125	547.064	546.994	546.910	---	---	7
8	---	---	---	---	547.063	547.084	547.132	547.044	546.980	546.909	---	---	8
9	---	---	---	---	547.071	547.093	547.129	547.037	546.977	546.914	---	---	9
10	---	---	---	---	547.079	547.095	547.127	547.035	546.979	546.911	---	---	10
11	---	---	---	---	547.077	547.092	547.125	547.044	546.965	546.900	---	---	11
12	---	---	---	---	547.078	547.092	547.128	547.044	546.965	546.904	---	---	12
13	---	---	---	---	547.077	547.075	547.130	547.040	546.952	546.897	---	---	13
14	---	---	---	---	547.082	547.069	547.112	547.036	546.952	546.894	---	---	14
15	---	---	---	---	547.082	547.071	547.108	547.032	546.940	546.895	---	---	15
16	---	---	---	---	547.093	547.068	547.106	547.021	546.943	546.889	---	---	16
17	---	---	---	---	547.106	547.073	547.120	547.015	546.944	546.884	---	---	17
18	---	---	---	---	547.118	547.091	547.123	547.011	546.932	546.893	---	---	18
19	---	---	---	546.697A	547.119	547.096	547.118	547.014	546.931	546.887	---	---	19
20	---	---	---	---	547.119	547.109	547.114	547.012	546.942	546.883	---	---	20
21	---	---	---	---	547.119	547.110	547.110	547.013	546.940	546.885	---	---	21
22	---	---	---	---	547.115	547.108	547.109	547.012	546.938	546.881	---	---	22
23	---	---	---	---	547.112	547.111	547.107	547.022	546.944	546.886	---	---	23
24	---	---	---	546.887A	547.116	547.110	547.104	547.020	546.935	546.886	---	---	24
25	---	---	---	546.918	547.110	547.107	547.098	547.014	546.933	546.887	---	---	25
26	---	---	---	546.934	547.107	547.104	547.097	547.015	546.927	546.886	---	---	26
27	---	---	---	546.946	547.106	547.101	547.109	547.016	546.925	546.883	---	---	27
28	---	---	---	546.966	547.100	547.115	547.102	547.013	546.930	546.892	---	---	28
29	---		---	546.981	547.097	547.118	547.092	547.008	546.938	546.882	---	---	29
30	---		---	546.992	547.095	547.116	547.090	547.006	546.934	546.888A	---	---	30
31	---		---		547.097		547.088	547.004		546.886E		---	31
MEAN	---	---	---	---	547.084	547.088	547.112	547.033	546.957	546.898	---	---	MEAN
MAX	---	---	---	---	547.119	547.118	547.132	547.085	546.996	546.929	---	---	MAX
MIN	---	---	---	---	547.005	547.034	547.088	547.004	546.925	546.881	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 547.132 ON JUL 08

MAXIMUM INSTANTANEOUS,
547.143 AT 12:00 CST ON JUL 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1979 ADJ.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 02 N
LONG 100 35 55 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
405 km²

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.004B	0.882	0.445	0.086	0.002	0	0	---	---	1
2	---	---	0 B	0.013B	0.720	0.501	0.094	0.001	0	0	---	---	2
3	---	---	0 B	0.098B	0.610	0.405	0.119	0	0	0	---	---	3
4	---	---	0 B	0.259B	0.451	0.386	0.162	0	0	0	---	---	4
5	---	---	0 B	0.450B	0.359	0.442	0.152	0	0	0	---	---	5
6	---	---	0 B	0.700B	0.266	0.554	0.189	0	0	0	---	---	6
7	---	---	0 B	0.633B	0.186	0.553	0.190	0	0	0	---	---	7
8	---	---	0 B	0.570B	0.268	0.607	0.314	0	0	0	---	---	8
9	---	---	0 B	0.521B	0.291	0.702	0.498	0	0	0	---	---	9
10	---	---	0 B	0.475B	0.292	0.553	0.232	0	0	0	---	---	10
11	---	---	0 B	0.422B	0.309	0.558	0.218	0	0	0	---	---	11
12	---	---	0 B	0.385B	0.276	0.544	0.138	0	0	0	---	---	12
13	---	---	0 B	0.353B	0.241	0.417	0.197	0	0	0	---	---	13
14	---	---	0 B	0.408B	0.202	0.196	0.208	0	0	0	---	---	14
15	---	---	0 B	0.490B	0.234	0.056	0.212	0	0	0.071	---	---	15
16	---	---	0 B	0.601B	0.545	0.011	0.344	0	0	0.275	---	---	16
17	---	---	0 B	1.13 B	0.902	0.004	0.287	0	0	0.278	---	---	17
18	---	---	0 B	1.74 B	1.13	0.002	0.206	0	0	0.226	---	---	18
19	---	---	0 B	2.74 B	2.20	0	0.148	0	0	0.149	---	---	19
20	---	---	0 B	3.00 B	2.17	0	0.123	0	0	0.110	---	---	20
21	---	---	0 B	2.61	1.98	0	0.085	0	0	0.081	---	---	21
22	---	---	0 B	2.13	2.22	0	0.058	0	0	0.063	---	---	22
23	---	---	0 B	2.22	2.28	0	0.037	0	0	0.048	---	---	23
24	---	---	0 B	2.24	2.10	0	0.022	0	0	0.043	---	---	24
25	---	---	0 B	2.35	1.74	0.003	0.016	0	0	0.040	---	---	25
26	---	---	0 B	2.62	1.33	0.021	0.013	0	0	0.036	---	---	26
27	---	---	0 B	2.14	1.02	0.007	0.011	0	0	0.027	---	---	27
28	---	---	0 B	1.99 A	0.722	0.086	0.007	0	0	0.021	---	---	28
29	---	---	0.001B	1.21 A	0.538	0.110	0.005	0	0	0.017	---	---	29
30	---		0.002B	1.13	0.435	0.068	0.003	0	0	0.016	---	---	30
31	---		0.003B		0.377		0.004	0		0.014A		---	31
TOTAL	---	---	0.006	35.632	27.276	7.231	4.378	0.003	0	1.515	---	---	TOTAL
MEAN	---	---	0	1.19	0.880	0.241	0.141	0	0	0.049	---	---	MEAN
MAX	---	---	0.003	3.00	2.28	0.702	0.498	0.002	0	0.278	---	---	MAX
MIN	---	---	0	0.004	0.186	0	0.003	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.310
MAXIMUM DAILY, 3.00B ON APR 20
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 12 28 N
LONG 100 41 42 W
DRAINAGE AREA, 137 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	378
FEB	---	AUG	0.259
MAR	0.518	SEP	0
APR	3 080	OCT	131
MAY	2 360	NOV	---
JUN	625	DEC	---

TOTAL DISCHARGE, 6 570 dam³

SIPIWESK LAKE AT FORESTRY DOCK - STATION NO. 05UD006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	185.906	185.731	185.530	185.319	185.324	185.147	185.003	185.002	184.907	185.120	185.746	186.075	1
2	185.910	185.718	185.517	185.312	185.314	185.145	184.995	185.024	184.878	185.154	185.790	186.053	2
3	185.909	185.711	185.508	185.306	185.299	185.142	184.980	185.027	184.858	185.221	185.827	186.035	3
4	185.909	185.704	185.508	185.309	185.290	185.133	184.971	185.015	184.834	185.269	185.834	186.031	4
5	185.901	185.693	185.504	185.299	185.282	185.113	184.978	185.010	184.799	185.290	185.841	186.030	5
6	185.891	185.687	185.501	185.293	185.275	185.110	184.970	185.004	184.771	185.293	185.854	186.022	6
7	185.892	185.681	185.497	185.289	185.272	185.097	184.961	185.000	184.749	185.292	185.875	186.014	7
8	185.889	185.678	185.495	185.286	185.265	185.086	184.966	184.999	184.715	185.292	185.905	186.010	8
9	185.881	185.672	185.496	185.284	185.263	185.072	184.976	184.996	184.686	185.295	185.938	186.020	9
10	185.878	185.670	185.493	185.281	185.259	185.062	184.979	184.998	184.654	185.307	185.960	186.021	10
11	185.875	185.664	185.491	185.276	185.265	185.057	184.980	184.982	184.629	185.340	185.981	186.031	11
12	185.864	185.668	185.493	185.271	185.257	185.070	184.977	184.970	184.607	185.347	185.989	186.043	12
13	185.851	185.669	185.493	185.265	185.247	185.061	184.953	184.953	184.598	185.362	185.998	186.051	13
14	185.846	185.660	185.494	185.263	185.234	185.067	184.928	184.942	184.595	185.392	186.024	186.056	14
15	185.831	185.653	185.491	185.261	185.233	185.063	184.914	184.935	184.579	185.411	186.054	186.056	15
16	185.822	185.644	185.499	185.259	185.246	185.036	184.911	184.929	184.572	185.421	186.084	186.058	16
17	185.810	185.636	185.495	185.255	185.256	185.022	184.922	184.925	184.558	185.435	186.112	186.061	17
18	185.798	185.631	185.483	185.251	185.252	185.017	184.939	184.921	184.555	185.454	186.143	186.059	18
19	185.788	185.620	185.470	185.251	185.253	185.017	184.943	184.923	184.538	185.473	186.158	186.056E	19
20	185.776	185.613	185.459	185.249	185.250	185.021	184.948	184.924	184.535	185.509	186.171	186.056E	20
21	185.775	185.609	185.448	185.243	185.251	185.026	184.955	184.919	184.564	185.539	186.179	186.056E	21
22	185.774	185.599	185.432	185.249	185.254	185.032	184.965	184.924	184.598	185.547	186.214	186.055E	22
23	185.769	185.591	185.411	185.264	185.254	185.035	184.971	184.936	184.627	185.573	186.218	186.058	23
24	185.769	185.583	185.392	185.289	185.248	185.028	184.977	184.952	184.674	185.606	186.206	186.053E	24
25	185.769	185.569	185.381	185.302	185.240	185.021	184.984	184.953	184.744	185.622	186.185	186.046E	25
26	185.773	185.561	185.368	185.317	185.232	185.023	184.996	184.960	184.806	185.643	186.154	186.042E	26
27	185.774	185.548	185.362	185.325	185.212	185.020	185.002	184.970	184.860	185.669	186.130	186.042	27
28	185.766	185.536	185.349	185.324	185.196	185.006	185.000	184.965	184.922	185.668	186.106	186.047	28
29	185.763		185.337	185.330	185.194	185.012	184.988	184.943	184.990	185.702	186.092	186.032E	29
30	185.753		185.331	185.332	185.181	185.008	184.977	184.921	185.055	185.704	186.088	186.019E	30
31	185.744		185.327		185.167		184.993	184.915		185.722		186.006E	31
MEAN	185.828	185.643	185.453	185.285	185.250	185.058	184.968	184.962	184.715	185.441	186.029	186.042	MEAN
MAX	185.910	185.731	185.530	185.332	185.324	185.147	185.003	185.027	185.055	185.722	186.218	186.075	MAX
MIN	185.744	185.536	185.327	185.243	185.167	185.006	184.911	184.915	184.535	185.120	185.746	186.006	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 185.389
MAXIMUM DAILY, 186.218 ON NOV 23
MINIMUM DAILY, 184.535 ON SEP 20
MAXIMUM INSTANTANEOUS,
186.221 AT 13:36 CST ON NOV 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 05 40 N
LONG 097 30 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
1 000 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

SIPIWESK LAKE AT SIPIWESK LANDING - STATION NO. 05UD007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	186.155	185.956	185.747	185.538	185.531	185.382	185.149	185.181	185.176A	185.350	186.040	186.292	1
2	186.149	185.953	185.735	185.531	185.521	185.372	185.161	185.189	185.140A	185.421A	186.044	186.281	2
3	186.154	185.954	185.737	185.522	185.512	185.329	185.185	185.195	185.084A	185.449A	186.056	186.270	3
4	186.153	185.943	185.739	185.516	185.507	185.302	185.161	185.186	185.038A	185.495	186.082	186.270	4
5	186.143	185.929	185.738	185.510	185.498	185.318	185.133	185.183	185.016A	185.512	186.097	186.252	5
6	186.145	185.928	185.732	185.505	185.497	185.293	185.124	185.159	185.026A	185.526	186.099	186.243	6
7	186.140	185.927	185.726	185.501	185.503	185.293	185.136	185.153	184.947A	185.528	186.123	186.244	7
8	186.142	185.921	185.725	185.497	185.496	185.269	185.129	185.129	184.937A	185.540	186.145	186.241	8
9	186.131	185.906	185.720	185.496	185.487	185.264	185.147	185.142E	184.920A	185.550	186.166	186.238	9
10	186.127	185.897	185.711	185.486	185.483	185.241	185.133	185.141E	184.918E	185.562	186.184	186.246	10
11	186.114	185.899	185.728	185.479	185.483	185.252	185.141	185.135E	184.900A	185.550	186.199	186.260	11
12	186.104	185.900	185.726	185.478	185.475	185.262	185.102	185.117E	184.879E	185.591	186.209	186.271	12
13	186.108	185.893	185.724	185.475	185.460	185.257	185.081	185.117E	184.869E	185.643	186.235	186.278	13
14	186.093	185.887	185.722	185.475	185.444	185.233	185.064	185.122E	184.837A	185.610	186.252	186.281	14
15	186.073	185.880	185.721	185.470	185.451	185.168	185.040	185.124E	184.842A	185.611	186.275	186.281	15
16	186.059	185.871	185.720	185.465	185.479	185.172	185.052	185.120E	184.822A	185.628	186.312	186.291	16
17	186.048	185.868	185.711	185.463	185.481	185.194	185.077	185.129A	184.810A	185.689	186.339	186.291	17
18	186.040	185.863	185.701	185.471	185.470	185.186	185.081	185.136E	184.807	185.727	186.365	186.290	18
19	186.034	185.854	185.694	185.469	185.456	185.183	185.101	185.119A	184.807	185.780	186.392	186.280	19
20	186.023	185.851	185.686	185.467	185.459	185.192	185.123	185.098A	184.852	185.785	186.402	186.275	20
21	186.016	185.832	185.672	185.464	185.460	185.213	185.116	185.101E	184.873	185.782	186.410	186.276	21
22	186.005	185.826	185.648	185.474	185.456	185.222	185.118	185.108E	184.872	185.835	186.422	186.276	22
23	186.008	185.823	185.630	185.491	185.458	185.186	185.137	185.113A	184.877	185.849	186.426	186.274	23
24	186.005	185.812	185.607	185.511	185.455	185.196	185.151	185.117A	184.939	185.856	186.428	186.274	24
25	186.006	185.810	185.599	185.533	185.449	185.242	185.187	185.151A	184.973	185.859	186.407	186.267E	25
26	186.011	185.788	185.587	185.545	185.428	185.204	185.186	185.151A	185.013	185.880	186.381	186.262E	26
27	185.996	185.775	185.574	185.547	185.464	185.196	185.175	185.152A	185.098	185.856	186.359	186.263E	27
28	185.998	185.770	185.567	185.550	185.419	185.233	185.150	185.132A	185.179	185.915	186.335	186.265E	28
29	185.998		185.558	185.551	185.388	185.185	185.151	185.111A	185.228	185.874	186.321	186.261E	29
30	185.982		185.549	185.543	185.368	185.173	185.147A	185.126A	185.294	185.937	186.308	186.248E	30
31	185.970		185.541		185.340		185.182A	185.163A		186.005		186.236E	31
MEAN	186.069	185.876	185.677	185.501	185.464	185.241	185.130	185.139	184.966	185.684	186.260	186.267	MEAN
MAX	186.155	185.956	185.747	185.551	185.531	185.382	185.187	185.195	185.294	186.005	186.428	186.292	MAX
MIN	185.970	185.770	185.541	185.463	185.340	185.168	185.040	185.098	184.807	185.350	186.040	186.236	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 185.605
MAXIMUM DAILY, 186.428 ON NOV 24
MINIMUM DAILY, 184.807 ON SEP 18
MAXIMUM INSTANTANEOUS,
186.429 AT 21:27 CST ON NOV 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 53 00 N
LONG 098 22 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
1 000 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1980 ADJ.)

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0	0	0 B	0.789B	0.033	0	0.250	0	0	0	0	0	1
2	0	0	0 B	0.673B	0.027	0.003	0.228	0.001	0	0	0	0	2
3	0	0	0 B	1.93 B	0.031	0.008	0.208	0	0	0	0	0	3
4	0	0	0 B	1.42 B	0.028	0.005	0.185	0	0.001	0	0	0	4
5	0	0	0 B	0.573B	0.026	0.004	0.167	0	0	0	0	0	5
6	0	0	0 B	0.580	0.023	0.003	0.142	0	0	0	0	0	6
7	0	0	0 B	0.340	0.018	0.005	0.116	0	0	0	0	0	7
8	0	0	0 B	0.410	0.015	0.993	0.106	0	0	0	0	0	8
9	0	0	0 B	0.408	0.010	0.549	0.096	0	0	0	0	0	9
10	0	0	0 B	0.297	0.008	0.390	0.087	0	0	0	0	0	10
11	0	0	0 B	0.149	0.006	0.403	0.073	0	0	0	0	0	11
12	0	0	0 B	0.202	0.004	0.607	0.053	0	0	0	0	0	12
13	0	0	0 B	0.285	0.003	1.31	0.041	0	0	0	0	0	13
14	0	0	0.087B	0.338	0.003	0.812	0.034	0	0	0	0	0	14
15	0	0	0.113B	0.921	0.003	0.714	0.027	0	0	0	0	0	15
16	0	0	0.006B	0.397	0.015	0.704	0.020	0	0	0	0	0	16
17	0	0	0.013B	0.247	0.016	0.939	0.016	0	0	0	0	0	17
18	0	0	0.042B	0.166	0.010	0.987	0.013	0	0	0	0	0	18
19	0	0	0.008B	0.159	0.008	0.791	0.010	0	0	0	0	0	19
20	0	0	0.006B	0.186	0.006	0.702	0.007	0	0	0	0	0	20
21	0	0	0.005B	0.152	0.005	0.643	0.005	0	0	0	0	0	21
22	0	0	0.005B	0.148	0.005	0.586	0.003	0	0	0	0	0	22
23	0	0.001B	0.004B	0.092	0.004	0.542	0.002	0	0	0	0	0	23
24	0	0.005B	0.005B	0.349	0.003	0.507	0.001	0	0	0	0	0	24
25	0	0.002B	0.005B	0.388	0.003	0.466	0.001	0	0	0	0	0	25
26	0	0 B	0.006B	0.198	0.002	0.405	0.001	0	0	0	0	0	26
27	0	0 B	0.007B	0.099	0.002	0.361	0	0	0	0	0	0	27
28	0	0 B	0.019B	0.068	0.001	0.337	0	0.017	0	0	0	0	28
29	0		0.054B	0.063	0.001	0.305	0	0.006	0	0	0	0	29
30	0		0.408B	0.044	0.001	0.275	0	0.003	0	0	0	0	30
31	0		0.538B		0		0	0.001		0		0	31
TOTAL	0	0.008	1.331	12.071	0.320	14.356	1.892	0.028	0.001	0	0	0	TOTAL
MEAN	0	0	0.043	0.402	0.010	0.479	0.061	0.001	0	0	0	0	MEAN
MAX	0	0.005	0.538	1.93	0.033	1.31	0.250	0.017	0.001	0	0	0	MAX
MIN	0	0	0	0.044	0	0	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.082
MAXIMUM DAILY, 1.93B ON APR 03
MINIMUM DAILY, 0 ON JAN 01
MAXIMUM INSTANTANEOUS,
4.38B AT 16:24 CST ON APR 03

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 17 N
LONG 098 36 13 W

DRAINAGE AREA, 981 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN 0	JUL 163
FEB 0.691	AUG 2.42
MAR 115	SEP 0.086
APR 1 040	OCT 0
MAY 27.6	NOV 0
JUN 1 240	DEC 0

TOTAL DISCHARGE, 2 590 dam³

SOURIS RIVER ABOVE HARTNEY DAM - STATION NO. 05NG806

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	419.701	419.701	419.938E	419.931	419.951	419.951	419.941	---	1
2	---	---	---	---	419.711	419.711	419.941	419.921	419.951	419.941	419.941	---	2
3	---	---	---	---	419.711	419.714E	419.951	419.921	419.951	419.931	---	---	3
4	---	---	---	---	419.701	419.718E	419.951	419.921E	419.951	419.931	---	---	4
5	---	---	---	---	419.691	419.721E	419.961	419.921E	419.951	419.931	---	---	5
6	---	---	---	---	419.686E	419.724E	419.961	419.921	419.951	419.931E	---	---	6
7	---	---	---	---	419.681	419.728E	419.966E	419.931	419.951	419.931E	---	---	7
8	---	---	---	---	419.681	419.731E	419.971	419.941	419.948E	419.931	---	---	8
9	---	---	---	---	419.691	419.734E	419.951	419.931	419.944E	419.931	---	---	9
10	---	---	---	---	419.691	419.738E	419.951	419.931	419.941	419.921	---	---	10
11	---	---	---	---	419.691	419.741	419.951	419.931E	419.941	419.921	---	---	11
12	---	---	---	---	419.693E	419.751	419.951	419.931E	419.941	419.941	---	---	12
13	---	---	---	---	419.695E	419.791	419.951	419.931	419.941	419.944E	---	---	13
14	---	---	419.765	---	419.698E	419.831	419.941E	419.931	419.931	419.948E	---	---	14
15	---	---	---	---	419.700E	419.921	419.931	419.941	419.931	419.951	---	---	15
16	---	---	---	---	419.702E	419.941E	419.931	419.941	419.936E	419.951	---	---	16
17	---	---	---	---	419.704E	419.961E	419.941	419.941	419.941	419.951	---	---	17
18	---	---	---	---	419.707E	419.981	419.951	419.951	419.951	419.951	---	---	18
19	---	---	---	---	419.709E	419.991	419.941	419.951E	419.961	419.951	---	---	19
20	---	---	---	---	419.711	420.001	419.931	419.951	419.961	419.951E	---	---	20
21	---	---	---	---	419.711	420.011	419.931	419.961	419.971	419.951E	---	---	21
22	---	---	---	---	419.721	419.991	419.926E	419.951	419.964E	419.951	---	---	22
23	---	---	---	---	419.731	419.978E	419.921	419.961	419.958E	419.961	---	---	23
24	---	---	---	---	419.711	419.964E	419.911	419.951	419.951	419.951	---	---	24
25	---	---	---	---	419.701	419.951	419.891	419.951	419.951	419.941	---	---	25
26	---	---	---	---	419.691	419.951	419.881	419.951E	419.961	419.931	---	---	26
27	---	---	---	---	419.691	419.941	419.921	419.951	419.961	419.931E	---	---	27
28	---	---	---	---	419.691	419.931	419.928E	419.951	419.951	419.931E	---	---	28
29	---		---	419.711	419.691	419.931	419.934E	419.951	419.951E	419.931	---	---	29
30	---		---	419.701	419.691	419.934E	419.941	419.951	419.951E	419.931	---	---	30
31	---		---		419.691		419.931	419.951		419.931		---	31
MEAN	---	---	---	---	419.699	419.857	419.938	419.940	419.950	419.940	---	---	MEAN
MAX	---	---	---	---	419.731	420.011	419.971	419.961	419.971	419.961	---	---	MAX
MIN	---	---	---	---	419.681	419.701	419.881	419.921	419.931	419.921	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 29 36 N
LONG 100 31 30 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1941

DRAINAGE AREA,
53 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.061B	0.985B	0.195	0.258	0.417	0.163	0.360	0.385	---	---	1
2	---	---	0.066B	0.923B	0.164	0.309	0.342	0.352	0.439	0.378	---	---	2
3	---	---	0.056B	0.986B	0.194	0.296	0.490	0.380	0.393	0.324	---	---	3
4	---	---	0.062B	0.787B	0.191	0.347	0.322	0.341	0.416	0.195	---	---	4
5	---	---	0.058B	0.717B	0.207	0.340	0.322	0.314	0.408	0.199	---	---	5
6	---	---	0.057B	0.625B	0.185	0.291	0.397	0.287	0.355	0.251	---	---	6
7	---	---	0.064B	0.668B	0.103	0.225	0.496	0.257	0.418	0.227	---	---	7
8	---	---	0.087B	0.669B	0.142	0.429	0.742	0.197	0.373	0.250	---	---	8
9	---	---	0.147B	0.587B	0.117	0.375	0.679	0.186	0.440	0.275	---	---	9
10	---	---	0.198B	0.542	0.134	0.315	0.546	0.138	0.454	0.204	---	---	10
11	---	---	0.195B	0.487	0.138	0.361	0.478	0.150	0.435	0.265	---	---	11
12	---	---	0.420B	0.467	0.186	0.343	0.485	0.201	0.432	0.212	---	---	12
13	---	---	0.858B	0.483	0.262	0.349	0.395	0.262	0.370	0.206	---	---	13
14	---	---	0.694B	0.484	0.244	0.259	0.431	0.247	0.362	0.193	---	---	14
15	---	---	0.358B	0.459	0.342	0.224	0.428	0.266	0.356	0.220	---	---	15
16	---	---	0.390B	0.479	0.471	0.214	0.383	0.275	0.394	0.312	---	---	16
17	---	---	0.288B	0.440	0.536	0.344	0.397	0.334	0.389	0.314	---	---	17
18	---	---	0.304B	0.420	0.456	0.460	0.381	0.486	0.464	0.328	---	---	18
19	---	---	0.309B	0.436	0.362	0.661	0.324	0.537	0.448	0.347	---	---	19
20	---	---	0.345B	0.380	0.327	1.74	0.286	0.598	0.486	0.383	---	---	20
21	---	---	0.345B	0.346	0.325	1.51	0.256	0.503	0.499	0.391	---	---	21
22	---	---	0.323B	0.300	0.263	0.890	0.262	0.368	0.509	0.400	---	---	22
23	---	---	0.230B	0.183	0.257	0.673	0.230	0.308	0.592	0.418	---	---	23
24	---	---	0.216B	0.198	0.285	0.612	0.200	0.257	0.605	0.374	---	---	24
25	---	---	0.195B	0.382	0.244	0.573	0.215	0.269	0.552	0.360	---	---	25
26	---	---	0.193B	0.277	0.238	0.495	0.246	0.284	0.553	0.410	---	---	26
27	---	---	0.195B	0.215	0.219	0.506	0.272	0.445	0.520	0.325	---	---	27
28	---	---	0.214B	0.264	0.215	0.485	0.196	0.346	0.489	0.335	---	---	28
29	---	---	0.289B	0.244	0.268	0.440	0.178	0.315	0.471	0.279	---	---	29
30	---		0.716B	0.220	0.293	0.357	0.192	0.337	0.443	0.309	---	---	30
31	---		1.86 B		0.269		0.172	0.423		0.288		---	31
TOTAL	---	---	9.793	14.653	7.832	14.681	11.160	9.826	13.425	9.357	---	---	TOTAL
MEAN	---	---	0.316	0.488	0.253	0.489	0.360	0.317	0.448	0.302	---	---	MEAN
MAX	---	---	1.86	0.986	0.536	1.74	0.742	0.598	0.605	0.418	---	---	MAX
MIN	---	---	0.056	0.183	0.103	0.214	0.172	0.138	0.355	0.193	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.370
MAXIMUM DAILY, 1.86B ON MAR 31
MINIMUM DAILY, 0.056B ON MAR 03
MAXIMUM INSTANTANEOUS,
3.37 AT 03:54 CST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 10 N
LONG 100 15 00 W
DRAINAGE AREA, 58 700 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	964
FEB	---	AUG	849
MAR	846	SEP	1 160
APR	1 270	OCT	808
MAY	677	NOV	---
JUN	1 270	DEC	---

TOTAL DISCHARGE, 7 840 dam³

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.015B	0B	0 B	13.3 B	0.611	0.267	0.587	0.263	0.269	0.384	0.600	0.276	1
2	0.015B	0B	0 B	20.8 B	0.574	0.301	0.555	0.295	0.292	0.370	0.581	0.249	2
3	0.014B	0B	0 B	14.1 B	0.539	0.294	0.767	0.297	0.287	0.373	0.530	0.234	3
4	0.014B	0B	0 B	9.25 B	0.513	0.308	0.926	0.295	0.285	0.335	0.504	0.249	4
5	0.014B	0B	0 B	7.15 B	0.489	0.306	1.01	0.266	0.246	0.345	0.480	0.263	5
6	0.014B	0B	0 B	4.94 B	0.445	0.287	0.920	0.224	0.206	0.353	0.427	0.279	6
7	0.014B	0B	0 B	4.39 B	0.396	0.274	1.32	0.191	0.200	0.346	0.457	0.277	7
8	0.014B	0B	0 B	2.66 B	0.335	0.564	1.28	0.137	0.200	0.324	0.430	0.288	8
9	0.013B	0B	0 B	1.92 B	0.317	0.648	1.06	0.099	0.251	0.321	0.381	0.313	9
10	0.013B	0B	0 B	1.22 B	0.303	0.539	0.967	0.094	0.233	0.336	0.603	0.348	10
11	0.013B	0B	0 B	0.853B	0.288	0.449	0.882	0.117	0.193	0.338	1.01	0.345	11
12	0.013B	0B	0.141B	0.995B	0.277	0.456	1.28	0.163	0.200	0.330	1.10	0.321	12
13	0.013B	0B	1.61 B	1.26 B	0.284	0.353	1.18	0.188	0.185	0.309	1.06	0.335	13
14	0.013B	0B	3.78 B	1.62 B	0.275	0.307	1.01	0.137	0.179	0.328	0.978	0.330	14
15	0.012B	0B	1.90 B	1.58	0.299	0.277	0.853	0.155	0.149	0.320	0.885	0.298	15
16	0.012B	0B	1.79 B	1.33	0.573	0.247	0.808	0.184	0.145	0.309	0.798	0.274	16
17	0.012B	0B	1.99 B	1.32	0.676	0.333	0.843	0.169	0.142	0.302	0.786	0.272	17
18	0.012B	0B	2.11 B	1.17	0.954	0.419	0.843	0.137	0.179	0.308	0.784	0.260	18
19	0.012B	0B	2.80 B	1.13	1.28	0.345	0.786	0.132	0.200	0.316	0.724	0.273	19
20	0.012B	0B	2.57 B	1.11	1.06	0.291	0.671	0.118	0.202	0.318	0.622B	0.278	20
21	0.011B	0B	1.16 B	1.05	0.841	0.265	0.606	0.091	0.206	0.315	0.687B	0.285	21
22	0.011B	0B	0.843B	0.957	0.712	0.393	0.558	0.075	0.198	0.314	0.338B	0.274	22
23	0.010B	0B	0.679B	0.928	0.614	1.74	0.520	0.080	0.188	0.338	0.446	0.239	23
24	0.010B	0B	0.576B	0.853	0.551	1.74	0.464	0.095	0.181	0.523	0.408	0.201	24
25	0.009B	0B	0.543B	0.981	0.463	1.40	0.406	0.411	0.189	0.551	0.350	0.188	25
26	0.009B	0B	0.547B	0.899	0.403	1.14	0.351	0.463	0.236	0.562	0.350	0.198	26
27	0.008B	0B	0.512B	0.808	0.366	0.959	0.340	0.458	0.266	0.557	0.369	0.201	27
28	0.006B	0B	0.540B	0.759	0.335	0.818	0.323	0.411	0.303	0.569	0.311	0.213	28
29	0.003B		0.592B	0.685	0.311	0.723	0.300	0.338	0.358	0.594	0.275	0.236	29
30	0.001B		0.817B	0.668	0.291	0.636	0.299	0.313	0.402	0.578	0.277	0.250	30
31	0.001B		2.40 B		0.269		0.276	0.283		0.571		0.215	31
TOTAL	0.343	0	27.900	100.686	15.644	17.079	22.991	6.679	6.770	12.137	17.551	8.264	TOTAL
MEAN	0.011	0	0.900	3.36	0.505	0.569	0.742	0.216	0.226	0.392	0.585	0.267	MEAN
MAX	0.015	0	3.78	20.8	1.28	1.74	1.32	0.463	0.402	0.594	1.10	0.348	MAX
MIN	0.001	0	0	0.668	0.269	0.247	0.276	0.075	0.142	0.302	0.275	0.188	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.647
MAXIMUM DAILY, 20.8B ON APR 02
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS,
26.2B AT 16:22 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 36 05 N
LONG 099 40 55 W
DRAINAGE AREA, 61 100 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	29.6	JUL	1 990
FEB	0	AUG	577
MAR	2 410	SEP	585
APR	8 700	OCT	1 050
MAY	1 350	NOV	1 520
JUN	1 480	DEC	714

TOTAL DISCHARGE, 20 400 dam³

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	0.158B	0.014	0.597	0.734	0.757	0.307	0.384	0.346	0.036B	1
2	0B	0B	0 B	0.169B	0.008	0.553	0.644	0.730	0.390	0.445	0.463	0.034B	2
3	0B	0B	0 B	0.122B	0.010	0.530	0.677	0.700	0.242	0.403	0.535	0.034B	3
4	0B	0B	0 B	0.107B	0.018	0.667	0.681	0.720	0.241	0.420	0.614	0.033B	4
5	0B	0B	0 B	0.096	0.003	0.698	0.635	0.788	0.275	0.429	0.627	0.030B	5
6	0B	0B	0 B	0.134	0.017	0.752	0.694	0.790	0.205	0.434	0.618	0.030B	6
7	0B	0B	0 B	0.108	0.009	0.704	0.596	0.795	0.235	0.515	0.609	0.027B	7
8	0B	0B	0 B	0.112	0.004	0.698	0.618	0.600	0.216	0.538	0.600	0.023B	8
9	0B	0B	0 B	0.051	0.003	0.674	0.646	0.636	0.203	0.567	0.435	0.011B	9
10	0B	0B	0 B	0.039	0.020	0.652	0.664	0.680	0.239	0.561	0.261	0.008B	10
11	0B	0B	0 B	0.051	0.012	0.535	0.613	0.688	0.202	0.476	0.159	0.009B	11
12	0B	0B	0 B	0.088	0.022	0.603	0.653	0.692	0.275	0.598	0.107	0.006B	12
13	0B	0B	0 B	0.056	0.004	0.579	0.752	0.720	0.167	0.519	0.084	0.005B	13
14	0B	0B	0 B	0.029	0.020	0.606	0.668	0.619	0.202	0.446	0.074	0.005B	14
15	0B	0B	0.012B	0.028	0.025	0.655	0.611	0.766	0.169	0.511	0.075	0.005B	15
16	0B	0B	0.039B	0.010	0.009	0.630	0.637	0.537	0.217	0.443	0.080	0.003B	16
17	0B	0B	0.045B	0.059	0.009	0.737	0.589	0.484	0.190	0.392	0.089	0.002B	17
18	0B	0B	0.046B	0.067	0.260	0.745	0.605	0.597	0.180	0.624	0.096	0.003B	18
19	0B	0B	0.046B	0.009	0.206	0.605	0.615	0.703	0.198	0.466	0.087	0.002B	19
20	0B	0B	0.058B	0.017	0.185	0.601	0.605	0.713	0.185	0.332	0.078	0 B	20
21	0B	0B	0.118B	0.007	0.097	0.624	0.599	0.738	0.252	0.442	0.087	0 B	21
22	0B	0B	0.180B	0.005	0.024	0.627	0.619	0.696	0.216	0.368	0.075	0 B	22
23	0B	0B	0.200B	0.005	0.026	0.658	0.661	0.584	0.210	0.365	0.062	0 B	23
24	0B	0B	0.187B	0.006	0.169	0.566	0.700	0.599	0.163	0.429	0.052	0 B	24
25	0B	0B	0.154B	0.006	0.117	0.499	0.672	0.535	0.178	0.426	0.046B	0 B	25
26	0B	0B	0.131B	0.002	0.060	0.498	0.735	0.487	0.051	0.355	0.045B	0 B	26
27	0B	0B	0.122B	0.002	0.051	0.574	0.778	0.478	0.070	0.324	0.044B	0 B	27
28	0B	0B	0.118B	0.009	0.042	0.490	0.743	0.463	0.100	0.487	0.043B	0 B	28
29	0B		0.109B	0.011	0.057	0.590	0.718	0.431	0.200	0.322	0.041B	0 B	29
30	0B		0.105B	0.007	0.104	0.650	0.756	0.425	0.300	0.360	0.038B	0 B	30
31	0B		0.125B		0.367		0.766	0.317		0.344		0 B	31
TOTAL	0	0	1.795	1.570	1.972	18.697	20.684	19.468	6.278	13.725	6.570	0.306	TOTAL
MEAN	0	0	0.058	0.052	0.064	0.623	0.667	0.628	0.209	0.443	0.219	0.010	MEAN
MAX	0	0	0.200	0.169	0.367	0.752	0.778	0.795	0.390	0.624	0.627	0.036	MAX
MIN	0	0	0	0.002	0.003	0.490	0.589	0.317	0.051	0.322	0.038	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.249
MAXIMUM DAILY, 0.795 ON AUG 07
MINIMUM DAILY, 0B ON JAN 01
MAXIMUM INSTANTANEOUS,
0.980 AT 12:53 CST ON AUG 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 27 N
LONG 100 57 12 W
DRAINAGE AREA, 44 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	1 790
FEB	0	AUG	1 680
MAR	155	SEP	542
APR	136	OCT	1 190
MAY	170	NOV	568
JUN	1 620	DEC	26.4

TOTAL DISCHARGE, 7 880 dam³

SOURIS RIVER NEAR MELITA (PTH NO. 3) - STATION NO. 05NF803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	425.699E	425.696	425.812E	425.803E	425.798E	---	---	---	1
2	---	---	---	---	425.696	425.698E	425.814E	425.799	425.798E	---	---	---	2
3	---	---	---	---	425.702E	425.700E	425.815	425.801E	425.797E	---	---	---	3
4	---	---	---	---	425.706	425.702	425.815E	425.802E	425.796	---	---	---	4
5	---	---	---	---	425.707E	425.703E	425.815	425.803E	425.796E	---	---	---	5
6	---	---	---	---	425.706E	425.705	425.816E	425.804E	425.796	---	---	---	6
7	---	---	---	---	425.705	425.705E	425.818E	425.806	425.794E	---	---	---	7
8	---	---	---	---	425.703E	425.705	425.819E	425.806E	425.792E	---	---	---	8
9	---	---	---	---	425.702	425.709E	425.821	425.806	425.789E	---	---	---	9
10	---	---	---	---	425.700E	425.713E	425.820E	425.804E	425.787E	---	---	---	10
11	---	---	---	---	425.699	425.717	425.819E	425.803E	425.784	---	---	---	11
12	---	---	---	---	425.697E	425.719E	425.818E	425.801E	425.786E	---	---	---	12
13	---	---	---	---	425.696E	425.720	425.817E	425.799	425.787	---	---	---	13
14	---	---	---	---	425.694E	425.734E	425.816E	425.799E	425.787E	---	---	---	14
15	---	---	---	---	425.693	425.748	425.815E	425.799	425.787E	---	---	---	15
16	---	---	---	---	425.704E	425.778E	425.814E	425.803	425.787E	---	---	---	16
17	---	---	---	---	425.714	425.809E	425.813E	425.802E	425.787	---	425.729	---	17
18	---	---	---	---	425.712E	425.839	425.812E	425.801E	425.787E	---	---	---	18
19	---	---	---	---	425.709E	425.833E	425.811E	425.801E	425.787E	425.723	---	---	19
20	---	---	---	---	425.707E	425.827	425.810E	425.800E	425.787	425.724E	---	---	20
21	---	---	---	---	425.704E	425.821E	425.809E	425.800E	425.787E	425.726E	---	---	21
22	---	---	---	---	425.702	425.815	425.808E	425.799E	425.786E	425.727E	---	---	22
23	---	---	---	---	425.697E	425.815E	425.807E	425.799E	425.786E	425.728E	---	---	23
24	---	---	---	---	425.693	425.815E	425.806	425.798E	425.785E	425.729E	---	---	24
25	---	---	---	---	425.694E	425.815	425.806E	425.798E	425.784	425.730E	---	---	25
26	---	---	---	---	425.696E	425.813E	425.806	425.797E	425.784E	425.731E	---	---	26
27	---	---	---	---	425.697E	425.811E	425.806E	425.796	425.784	425.732	---	---	27
28	---	---	---	---	425.699	425.809	425.806	425.797E	---	425.732E	---	---	28
29	---		---	---	425.697E	425.810E	425.806E	425.798E	---	425.732E	---	---	29
30	---		---	---	425.696	425.811E	425.806E	425.799	---	425.732E	---	---	30
31	---		---		425.696E		425.806	425.799E		425.732E		---	31
MEAN	---	---	---	---	425.701	425.763	425.812	425.801	---	---	---	---	MEAN
MAX	---	---	---	---	425.714	425.839	425.821	425.806	---	---	---	---	MAX
MIN	---	---	---	---	425.693	425.696	425.806	425.796	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 425.839 ON JUN 18

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 15 59 N
LONG 100 58 15 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1937

DRAINAGE AREA,
49 900 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.007	0.003	0.007	0.013	0.008E	0.680	0.765	0.736	0.651	0.708	0.651	0.002B	1
2	0.007	0.004	0.007	0.013	0.008E	0.651	0.736	0.708	0.680	0.708	0.651	0.002B	2
3	0.007	0.004	0.008	0.011	0.008E	0.623	0.793	0.708	0.651	0.708	0.651	0.002B	3
4	0.007	0.004	0.009	0.010	0.017E	0.680	0.736	0.708	0.651	0.708	0.651	0.002B	4
5	0.007	0.004	0.010	0.009	0.014E	0.651	0.736	0.708	0.651	0.708	0.651	0.002B	5
6	0.006	0.004	0.010	0.008	0.008E	0.651	0.765	0.708	0.651	0.708	0.651	0.002B	6
7	0.005	0.004	0.009	0.009	0.007E	0.651	0.765	0.708	0.680	0.708	0.651	0.002B	7
8	0.004	0.004	0.009	0.010E	0.007E	0.651	0.736	0.708	0.680	0.708	0.538	0.002B	8
9	0.004	0.004	0.009	0.010E	0.007E	0.651	0.736	0.708	0.680	0.708	0.057E	0.003B	9
10	0.003	0.004	0.009	0.010E	0.006E	0.651	0.765	0.708	0.680	0.708	0.011E	0.003B	10
11	0.003	0.004	0.010	0.010E	0.006E	0.651	0.736	0.708	0.680	0.708	0.006E	0.003B	11
12	0.003	0.004	0.013	0.010E	0.006E	0.651	0.736	0.708	0.651	0.736	0.003E	0.003B	12
13	0.003	0.003	0.015	0.010E	0.006E	0.623	0.708	0.680	0.651	0.708	0.003E	0.002B	13
14	0.002	0.004	0.011	0.010E	0.006E	0.623	0.680	0.680	0.651	0.708	0.003E	0.002B	14
15	0.002	0.004	0.008	0.010E	0.008E	0.623	0.680	0.680	0.651	0.708	0.005	0.002B	15
16	0.002	0.003	0.006	0.010E	0.010E	0.651	0.680	0.651	0.651	0.708	0.004	0.002B	16
17	0.002	0.003	0.007	0.010E	0.011E	0.708	0.680	0.651	0.680	0.708	0.004	0.002B	17
18	0.002	0.003	0.007	0.010E	0.011E	0.680	0.708	0.651	0.680	0.708	0.003	0.002B	18
19	0.002	0.003	0.008	0.010E	0.011E	0.708	0.708	0.680	0.708	0.708	0.003	0.002B	19
20	0.002	0.003	0.009	0.008E	0.011E	0.708	0.708	0.680	0.680	0.680	0.003	0.001B	20
21	0.002	0.003	0.010	0.008E	0.011E	0.708	0.708	0.680	0.680	0.680	0.004	0.001B	21
22	0.002	0.003	0.009	0.008E	0.119E	0.708	0.708	0.708	0.680	0.680	0.003	0.001B	22
23	0.002	0.003	0.009	0.008E	0.085	0.736	0.708	0.680	0.708	0.680	0.003	0.001B	23
24	0.002	0.003	0.010	0.008E	0.076	0.736	0.708	0.680	0.708	0.680	0.003	0.001B	24
25	0.002	0.003	0.009	0.008E	0.076	0.736	0.765	0.680	0.708	0.680	0.003	0.001B	25
26	0.002	0.004	0.010	0.008E	0.079	0.736	0.736	0.680	0.680	0.680	0.003	0.001B	26
27	0.002	0.006	0.010	0.008E	0.082	0.708	0.736	0.736	0.708	0.651	0.003	0 B	27
28	0.002	0.007	0.012	0.008E	0.082	0.708	0.708	0.736	0.708	0.680	0.002	0 B	28
29	0.002		0.012	0.008E	0.091	0.736	0.708	0.736	0.708	0.651	0.002	0 B	29
30	0.002		0.013	0.008E	0.221	0.736	0.708	0.708	0.708	0.651	0.002B	0 B	30
31	0.003		0.013		0.793		0.736	0.680		0.651		0 B	31
TOTAL	0.103	0.105	0.298	0.281	1.891	20.414	22.486	21.581	20.334	21.524	5.228	0.049	TOTAL
MEAN	0.003	0.004	0.010	0.009	0.061	0.681	0.725	0.696	0.678	0.694	0.174	0.002	MEAN
MAX	0.007	0.007	0.015	0.013	0.793	0.736	0.793	0.736	0.708	0.736	0.651	0.003	MAX
MIN	0.002	0.003	0.006	0.008	0.006	0.623	0.680	0.651	0.651	0.651	0.002	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.313
MAXIMUM DAILY, 0.793 ON MAY 31
MINIMUM DAILY, 0E ON DEC 27
MAXIMUM INSTANTANEOUS,
1.13 ON AUG 27

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 47 N
LONG 100 57 29 W
DRAINAGE AREA, 43 700 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	8.90	JUL	1 940
FEB	9.07	AUG	1 860
MAR	25.7	SEP	1 760
APR	24.3	OCT	1 860
MAY	163	NOV	452
JUN	1 760	DEC	4.23

TOTAL DISCHARGE, 9 870 dam³

SOUTH MOOSE LAKE AT MOOSE LAKE NARROWS CONTROL STRUCTURE - STATION NO. 05KK006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	255.383	---	255.496	255.587	255.717	255.668	255.894	256.045	256.134	256.032	255.825	255.782	1
2	255.380	---	255.491	255.591	255.716	255.655	255.861	256.038	256.174	256.035	255.848	255.775	2
3	255.381	---	255.493	255.595	255.718	255.711	255.838	256.018	256.142	256.058	255.850	255.775	3
4	255.382	---	255.499	255.593	255.718	255.735	255.855	256.047	256.161	255.985	255.873	255.774	4
5	255.381	---	255.504	255.593	255.719	255.713	255.905	256.058	256.157	255.980	255.864	255.769	5
6	255.384	---	255.506	255.596	255.714	255.730	255.912	256.085	256.120	255.979	255.855	255.766	6
7	255.382	---	255.509	255.600	255.716	255.740	255.904	256.084	256.182	255.985	255.854	255.763	7
8	255.383	---	255.511	255.600	255.722	255.744	255.911	256.051	256.108	255.986	255.852	255.763	8
9	255.386	---	255.514	255.601	255.724	255.738	255.904	256.037	256.126	256.007	255.842	255.757	9
10	255.386	---	255.513	255.602	255.721	255.757	255.938	256.076	256.143	255.991	255.841	255.753	10
11	255.393	---	255.514	255.606	255.719	255.777	255.934	256.063	256.106	255.965	255.836	255.749	11
12	255.391	---	255.513	255.607	255.718	255.789	255.959	256.089	256.128	255.973	255.832	255.748	12
13	255.391	---	255.515	255.608	255.718	255.725	255.977	256.080	256.091	255.965	255.831	255.748	13
14	255.393	---	255.518	255.613	255.719	255.784	255.951	256.064	256.108	255.961	255.829	255.745	14
15	255.397	---	255.520	255.615	255.715	255.803	255.946	256.085	256.078	255.957	255.824	255.742	15
16	255.398	---	255.546	255.617	255.703	255.803	255.946	256.071	256.121	255.934	255.818	255.735	16
17	255.400	---	255.550	255.623	255.707	255.791	255.941	256.080	256.136	255.940	255.813	255.729	17
18	255.399	---	255.552	255.627	255.721	255.805	255.951	256.098	256.078	255.967	255.808	255.725	18
19	255.402	255.474A	255.557	255.632	255.711	255.806	255.944	256.104	256.061	255.945	255.802	255.724	19
20	255.405	255.480	255.556	255.635	255.712	255.795	255.941	256.111	256.060	255.926	255.795	255.719	20
21	255.414	255.481	255.561	255.643	255.716	255.797	255.968	256.119	256.047	255.938	255.794	255.716	21
22	255.413	255.477	255.565	255.648	255.715	255.812	255.982	256.138	256.075	255.926	255.812	255.717	22
23	255.414	255.481	255.567	255.654	255.714	255.843	255.992	256.138	256.085	255.922	255.815	255.717	23
24	255.416	255.481	255.572	255.657	255.719	255.837	255.990	256.121	256.068	255.926	255.812	255.711	24
25	255.417	255.484	255.571	255.662	255.715	255.822	255.993	256.110	256.071	255.935	255.811	255.708	25
26	255.417	255.490	255.575E	255.671	255.717	255.846	256.012	256.126	256.045	255.889	255.806	255.705	26
27	255.417	255.488	255.578A	255.678	255.690	255.857	256.043	256.140	256.025	255.854	255.801	255.705	27
28	255.415A	255.495	255.580	255.689	255.717	255.855	256.003	256.152	256.030	255.921	255.796	255.702	28
29	255.418E		255.586	255.710	255.727	255.871	255.905	256.158	256.075	255.899	255.795	255.698	29
30	255.420E		255.586	255.713	255.727	255.889	256.039	256.158	256.070	255.867	255.792	255.694	30
31	255.423E		255.586		255.737		256.042	256.149		255.851		255.692	31
MEAN	255.399	---	255.539	255.629	255.717	255.783	255.950	256.093	256.100	255.952	255.824	255.736	MEAN
MAX	255.423	---	255.586	255.713	255.737	255.889	256.043	256.158	256.182	256.058	255.873	255.782	MAX
MIN	255.380	---	255.491	255.587	255.690	255.655	255.838	256.018	256.025	255.851	255.792	255.692	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 256.182 ON SEP 07
MINIMUM DAILY, 255.380 ON JAN 02
MAXIMUM INSTANTANEOUS,
256.230 AT 15:28 CST ON SEP 07

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 57 00 N
LONG 100 10 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1964

DRAINAGE AREA,
9 160 km²

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 06GA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	15.8B	16.2B	16.8B	17.0B	18.0B	167E	253	141	65.2	66.4	59.0B	40.5B	1
2	15.7B	16.2B	16.8B	17.0B	18.0B	179E	253	141	65.7	64.6	58.4B	39.9B	2
3	15.7B	16.2B	16.8B	17.0B	18.0B	191E	248	138	65.0	62.8	57.8B	39.4B	3
4	15.6B	16.2B	16.8B	17.1B	18.0B	204E	246	135	62.9	61.5	57.1B	38.8B	4
5	15.6B	16.3B	16.8B	17.1B	18.0B	215E	243	133	61.8	62.7	56.5B	38.2B	5
6	15.5B	16.3B	16.8B	17.1B	18.0B	228E	240	131	60.2	63.2	55.9B	37.6B	6
7	15.5B	16.3B	16.8B	17.2B	18.0B	240E	236	126	60.8	63.2	55.3B	37.1B	7
8	15.4B	16.3B	16.9B	17.2B	18.0B	252E	228	123	60.7	62.7	54.7B	36.5B	8
9	15.4B	16.4B	16.9B	17.3B	18.0B	264E	225	118	59.5	65.5	54.0B	35.9B	9
10	15.4B	16.4B	16.9B	17.3B	18.0B	276E	221	115	59.9	62.9	53.4B	35.4B	10
11	15.5B	16.4B	16.9B	17.3B	18.0B	279E	216	111	58.9	61.4	52.8B	34.8B	11
12	15.5B	16.4B	16.9B	17.4B	18.0B	281E	213	107	58.3	61.3	52.2B	34.2B	12
13	15.5B	16.5B	16.9B	17.4B	18.0B	282E	207	105	58.3	61.9	51.6B	33.6B	13
14	15.6B	16.5B	16.9B	17.4B	18.4B	283E	201	102	58.5	63.4	50.9B	33.1B	14
15	15.6B	16.5B	16.9B	17.5B	18.8B	283E	194	100	58.5	64.5	50.3B	32.5B	15
16	15.6B	16.5B	16.9B	17.5B	19.2B	282E	187	98.1	59.7	64.2	49.6B	32.2B	16
17	15.7B	16.6B	16.9B	17.5B	19.8B	281E	182	95.5	60.7	62.8	49.1B	32.0B	17
18	15.7B	16.6B	16.9B	17.6B	20.1B	279A	179	92.6	60.9	62.7B	48.4B	31.8B	18
19	15.7B	16.6B	16.9B	17.6B	21.0B	281E	174	91.3	62.0	62.0B	47.8B	31.5B	19
20	15.8B	16.6B	16.9B	17.6B	22.5B	284A	171	88.7	63.1	64.0B	47.2B	31.1B	20
21	15.8B	16.6B	16.9B	17.7B	34.6B	282	170	87.8	64.1	63.5B	46.6B	30.9B	21
22	15.8B	16.7B	16.9B	17.7B	46.6B	285	167	83.7	64.6	63.2B	46.0B	30.7B	22
23	15.9B	16.7B	16.9B	17.7B	58.7B	289	165	81.2	66.8	62.8B	45.3B	30.5B	23
24	15.9B	16.7B	16.9B	17.8B	70.8B	282	162	80.1	65.3	62.6B	44.7B	30.2B	24
25	15.9B	16.7B	17.0B	17.8B	82.9B	280	160	79.1	65.9A	62.6B	44.1B	30.1B	25
26	16.0B	16.7B	17.0B	17.8B	94.9E	279	157	76.6	68.0A	62.6B	43.5B	30.0B	26
27	16.0B	16.8B	17.0B	17.9B	107 E	275	153	75.1	68.1A	62.1B	42.9B	29.8B	27
28	16.0B	16.8B	17.0B	17.9B	119 E	269	151	73.9	68.1	61.5B	42.2B	29.6B	28
29	16.1B		17.0B	17.9B	131 E	266	149	72.4	68.7	61.0B	41.6B	29.4B	29
30	16.1B		17.0B	18.0B	143 E	260	146	70.7	69.6	60.2B	41.0B	29.2B	30
31	16.1B		17.0B		155 E		144	68.5		59.8B		29.0B	31
TOTAL	487.4	461.7	523.9	524.3	1 417.3	7 798	6 041	3 141.3	1 889.8	1 942.6	1 499.9	1 035.5	TOTAL
MEAN	15.7	16.5	16.9	17.5	45.7	260	195	101	63.0	62.7	50.0	33.4	MEAN
MAX	16.1	16.8	17.0	18.0	155	289	253	141	69.6	66.4	59.0	40.5	MAX
MIN	15.4	16.2	16.8	17.0	18.0	167	144	68.5	58.3	59.8	41.0	29.0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 73.3
MAXIMUM DAILY, 289 ON JUN 23
MINIMUM DAILY, 15.4B ON JAN 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 08 35 N
LONG 098 13 40 W
DRAINAGE AREA, 13 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	42 100	JUL	522 000
FEB	39 900	AUG	271 000
MAR	45 300	SEP	163 000
APR	45 300	OCT	168 000
MAY	122 000	NOV	130 000
JUN	674 000	DEC	89 500

TOTAL DISCHARGE, 2 310 000 dam³

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.05 B	0.154	0.367	0.034	0	0	0	---	---	1
2	---	---	0 B	1.29 B	0.190	1.00	0.029	0	0	0	---	---	2
3	---	---	0 B	0.969	0.204	1.59	0.323	0	0	0	---	---	3
4	---	---	0 B	0.912	0.246	0.269	0.272A	0	0	0	---	---	4
5	---	---	0 B	0.343	0.211	0.088	1.98 E	0	0	0	---	---	5
6	---	---	0 B	0.266	0.159	0.080	1.80 E	0	0	0	---	---	6
7	---	---	0 B	0.321	0.127	0.085	1.85 E	0	0	0	---	---	7
8	---	---	0 B	0.477	0.110	0.211	1.65 E	0	0	0	---	---	8
9	---	---	0 B	0.264	0.099	0.166	1.44 E	0	0	0	---	---	9
10	---	---	0 B	0.284	0.090	0.053	1.24 E	0	0	0	---	---	10
11	---	---	0 B	0.213	0.078	1.41	1.03 E	0	0	0	---	---	11
12	---	---	0.040B	0.246	0.065	4.56	0.832E	0	0	0	---	---	12
13	---	---	1.75 B	0.933	0.055	1.44	0.628E	0	0	0	---	---	13
14	---	---	0.793B	0.682	0.049	0.358	0.410E	0	0	0	---	---	14
15	---	---	0.240B	0.282	0.045	0.172	0.220E	0	0	0	---	---	15
16	---	---	0.034B	0.327	0.040	0.122	0.022A	0	0	0	---	---	16
17	---	---	0.007B	0.173	0.173	0.422	0.020	0	0	0	---	---	17
18	---	---	0.005B	0.241	0.166	0.534	0.031	0	0	0	---	---	18
19	---	---	0 B	0.442	0.103	0.392	0.032	0	0	0	---	---	19
20	---	---	0 B	0.417	0.069	0.637	0.033	0	0	0	---	---	20
21	---	---	0.040B	0.351	0.049	0.282	0.026	0	0	0	---	---	21
22	---	---	0.035B	0.363	0.084	0.173	0.017	0	0	0	---	---	22
23	---	---	0.063B	0.315	0.099	0.139	0.012	0	0	0	---	---	23
24	---	---	0.031B	0.275	0.069	0.108	0.004	0	0	0	---	---	24
25	---	---	0.001B	0.254	0.057	0.068	0	0	0	0	---	---	25
26	---	---	0 B	0.227	0.038	0.089	0	0	0	0	---	---	26
27	---	---	0 B	0.172	0.029	0.067	0	0	0	0	---	---	27
28	---	---	0 B	0.144	0.020	0.050	0	0	0	0	---	---	28
29	---	---	0.027B	0.135	0.015	0.058	0	0	0	0	---	---	29
30	---		3.32 B	0.170	0.008	0.056	0	0	0	0	---	---	30
31	---		3.85 B		0		0	0		0		---	31
TOTAL	---	---	10.236	14.538	2.901	15.048	13.935	0	0	0	---	---	TOTAL
MEAN	---	---	0.330	0.485	0.094	0.502	0.450	0	0	0	---	---	MEAN
MAX	---	---	3.85	3.05	0.246	4.56	1.98	0	0	0	---	---	MAX
MIN	---	---	0	0.135	0	0.050	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.231
MAXIMUM DAILY, 4.56 ON JUN 12
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 18.3 AT 01:16 CST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 22 50 N
LONG 098 14 55 W
DRAINAGE AREA, 68.9 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 200
FEB	---	AUG	0
MAR	884	SEP	0
APR	1 260	OCT	0
MAY	251	NOV	---
JUN	1 300	DEC	---

TOTAL DISCHARGE, 4 900 dam³

SOUTHERN INDIAN LAKE AT MISSI FALLS - STATION NO. 06EC006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	257.481	---	257.157	257.037	---	---	257.566	257.637	257.588	257.531	257.367	257.207	1
2	257.475	---	257.154	257.035	---	---	257.598	257.660	257.601	257.481	257.345	257.190	2
3	257.465	---	257.137	257.037	---	---	257.558	257.655	257.632	257.434	257.357	257.170	3
4	257.464	---	257.127	257.040	---	---	257.577	257.633	257.628	257.502	257.362	257.147	4
5	257.457	---	257.119	257.041	---	---	257.593	257.643	257.600	257.533	257.356	257.157	5
6	257.443	---	257.116	257.034	---	---	257.592	257.646	257.592	257.510	257.358	257.132	6
7	257.438	---	257.116	257.030A	---	---	257.591	257.648	257.637	257.492	257.345	257.123	7
8	257.435	---	257.109	---	---	---	257.575	257.636	257.632	257.492	257.338	257.125	8
9	257.433	---	257.106	---	---	---	257.581	257.616	257.591	257.513	257.340	257.125	9
10	257.423	---	257.118	---	---	---	257.590	257.612	257.605	257.503	257.331	257.105	10
11	257.423	---	257.100	---	---	---	257.583	257.616	257.553	257.507	257.326	257.096	11
12	257.412	---	257.088	---	---	---	257.629	257.623	257.562	257.505	257.311	257.092	12
13	257.391	---	257.089	---	---	---	257.611	257.630	257.566	257.453	257.296	257.088	13
14	257.382	---	257.090	---	---	---	257.610	257.660	257.565	257.503	257.305	257.092	14
15	257.384	---	257.089	---	---	---	257.609	257.672	257.559	257.567	257.291	257.088	15
16	257.388	---	257.082	---	---	---	257.614	257.650	257.582	257.497	257.278	257.080	16
17	257.376	---	257.081	---	---	---	257.606	257.607	257.578	257.481	257.272	257.072	17
18	257.371	---	257.076	---	---	---	257.608	257.595	257.654	257.476	257.266	257.071	18
19	257.362	---	257.071	---	---	---	257.599	257.610	257.564	257.453	257.253	257.071	19
20	257.352	---	257.064	---	---	257.526A	257.587	257.615	257.539	257.458	257.242	257.068A	20
21	257.351	---	257.063	---	---	257.526	257.610	257.613	257.538	257.459	257.233	---	21
22	257.353	---	257.055	---	---	257.535	257.606	257.598	257.563	257.446	257.244	---	22
23	257.345	---	257.056	---	---	257.568	257.620	257.606	257.555	257.437	257.244	---	23
24	257.347	---	257.055	---	---	257.539	257.606	257.602	257.535	257.448	257.232	---	24
25	257.336	---	257.054	---	---	257.538	257.613	257.622	257.564	257.467	257.225	---	25
26	257.332	---	257.053	---	---	257.552	257.613	257.601	257.569	257.461	257.217	---	26
27	257.339	---	257.049	---	---	257.552	257.612	257.610	257.519	257.501	257.208	---	27
28	257.334	257.157A	257.044	---	---	257.543	257.647	257.609	257.520	257.409	257.208	---	28
29	257.332		257.044	---	---	257.566	257.664	257.602	257.549	257.505	257.195	---	29
30	---		257.044	---	---	257.574	257.639	257.588	257.552	257.406	257.202	---	30
31	---		257.042		---		257.624	257.557		257.374		---	31
MEAN	---	---	257.085	---	---	---	257.604	257.622	257.576	257.478	257.285	---	MEAN
MAX	---	---	257.157	---	---	---	257.664	257.674	257.654	257.567	257.367	---	MAX
MIN	---	---	257.042	---	---	---	257.558	257.557	257.519	257.374	257.195	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 257.672 ON AUG 15

MAXIMUM INSTANTANEOUS,
257.789 AT 22:52 CST ON SEP 02

WATER LEVELS ARE REFERRED TO CHURCHILL RIVER DATUM (MANITOBA HYDRO)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 18 47 N
LONG 098 09 40 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
261 000 km²

SOUTHERN INDIAN LAKE AT SOUTH BAY - STATION NO. 06EC003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	257.395E	---	---	256.942E	256.946	257.208	257.474	257.544	257.535	257.453	257.336	257.134	1
2	257.390E	---	---	256.935A	256.944	257.210	257.480	257.543	257.511	257.446	257.340	257.122	2
3	257.387A	---	---	256.942	256.951	257.213	257.492	257.553	257.521	257.474	257.330	257.116	3
4	257.377	---	---	256.944	256.955	257.219	257.482	257.545	257.516	257.491	257.287	257.118	4
5	257.369	---	---	256.942	256.955	257.227	257.470	257.536	257.528	257.462	257.283	257.117	5
6	257.375	---	---	256.937	256.972	257.234	257.472	257.537	257.524	257.451	257.275	257.109	6
7	257.369	---	---	256.937	256.974	257.232	257.480	257.536	257.477	257.434	257.260	257.106	7
8	257.363	---	---	256.936	256.974	257.226	257.499	257.549	257.524	257.426	257.261	257.104	8
9	257.353	---	---	256.934	256.975	257.250	257.498	257.544	257.501	257.389	257.253	257.107	9
10	257.357	---	---	256.934	256.983	257.241	257.488	257.537	257.489	257.411	257.241	257.096	10
11	257.351	---	---	256.934	256.984	257.272	257.492	257.528	257.520	257.472	257.232	257.098	11
12	257.334	---	---	256.936	256.990	257.309	257.472	257.520	257.491	257.439	257.225	257.096	12
13	257.333	---	---	256.933	256.994	257.339	257.485	257.550	257.487	257.438	257.227	257.091	13
14	257.329	---	---	256.932	257.003	257.321	257.494	257.555	257.487	257.438	257.218	257.088	14
15	257.313	---	---	256.938	257.017	257.338	257.491	257.525	257.496	257.408	257.201	257.084	15
16	257.306	---	---	256.934	257.029	257.366	257.494	257.538	257.461	257.429	257.186	257.090	16
17	257.300	---	---	256.932	257.032	257.376	257.507	257.535	257.463	257.427	257.182	257.085	17
18	257.294	---	---	256.937	257.042	257.382	257.510	257.517	257.470	257.410	257.179	257.075	18
19	257.289	---	---	256.943	257.051	257.396	257.523	257.502	257.503	257.410	257.171	257.065	19
20	257.282	---	---	256.934	257.065	257.413	257.521	257.511	257.484	257.414	257.168	257.059A	20
21	257.285	---	---	256.936	257.081	257.431	257.501	257.514	257.473	257.410	257.164	257.057E	21
22	257.278A	---	---	256.940	257.097	257.425	257.505	257.521	257.450	257.402	257.164	257.057E	22
23	257.270A	---	---	256.944	257.110	257.408	257.498	257.534	257.458	257.392	257.152	257.060E	23
24	257.265	---	---	256.944	257.125	257.434	257.521	257.531	257.463	257.382	257.148	257.053E	24
25	257.255	---	---	256.945	257.135	257.438	257.512	257.521	257.461	257.353	257.137	257.047E	25
26	257.256	---	---	256.943	257.145	257.436	257.504	257.516	257.460	257.375	257.126	257.043E	26
27	257.246	---	---	256.939	257.160	257.440	257.518	257.504	257.478	257.386	257.127	257.041E	27
28	257.236	---	---	256.940	257.163	257.440	257.537	257.516	257.459	257.356	257.130	257.038E	28
29	257.231A		---	256.958	257.170	257.434	257.555	257.516	257.411	257.327	257.124	257.035E	29
30	257.220E		---	256.953	257.178	257.444	257.527	257.514	257.421	257.334	257.131	257.032E	30
31	257.210E		---		257.188		257.534	257.564		257.335		257.028E	31
MEAN	257.310	---	---	256.939	257.045	257.337	257.501	257.531	257.484	257.412	257.209	257.079	MEAN
MAX	257.395	---	---	256.958	257.188	257.444	257.555	257.564	257.535	257.491	257.340	257.134	MAX
MIN	257.210	---	---	256.932	256.944	257.208	257.470	257.502	257.411	257.327	257.124	257.028	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 257.564 ON AUG 31
MINIMUM DAILY, 256.932 ON APR 14
MAXIMUM INSTANTANEOUS,
257.600 AT 19:15 CST ON AUG 31

WATER LEVELS ARE REFERRED TO CHURCHILL RIVER DATUM (MANITOBA HYDRO)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 40 51 N
LONG 099 01 11 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
261 000 km²

SOUTHERN INDIAN LAKE NEAR OPACHUANAU LAKE - STATION NO. 06EC007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	97.421E	97.234	97.061	96.949	96.951	97.253	97.528	97.556	97.527	97.440	97.344	97.112	1
2	97.416E	97.234	97.061	96.947	96.956	97.246	97.510	97.539	97.510	97.470	97.344	97.108	2
3	97.414A	97.243	97.065	96.945	96.962	97.252	97.549	97.551	97.500	97.522	97.304	97.105	3
4	97.399	97.231	97.059	96.942	96.966	97.263	97.514	97.551	97.500	97.477	97.274	97.109	4
5	97.394	97.221	97.051	96.944	96.970	97.269	97.492	97.540	97.530	97.421	97.275	97.099	5
6	97.399	97.219	97.040	96.946	96.982	97.282	97.502	97.540	97.518	97.419	97.259	97.098	6
7	97.393	97.218	97.033	96.943	96.979	97.276	97.512	97.539	97.463	97.410	97.256	97.107	7
8	97.384	97.219	97.033	96.941	96.979	97.270	97.539	97.555	97.504	97.410	97.246	97.097	8
9	97.376	97.210	97.028	96.940	96.986	97.306	97.517	97.544	97.506	97.369	97.237	97.093	9
10	97.376	97.201	97.020	96.940	96.991	97.287	97.507	97.543	97.487	97.418	97.230	97.090	10
11	97.369	97.193	97.040	96.936	96.990	97.350	97.518	97.532	97.542	97.461	97.212	97.092	11
12	97.350	97.190	97.026	96.945	97.001	97.376	97.463	97.522	97.497	97.409	97.212	97.088	12
13	97.355	97.173	97.010	96.938	97.006	97.400	97.493	97.558	97.476	97.460	97.220	97.079	13
14	97.350	97.170	97.003	96.945	97.017	97.357	97.501	97.540	97.478	97.416	97.199	97.074	14
15	97.333	97.163	96.999	96.946	97.035	97.393	97.492	97.508	97.481	97.357	97.188	97.072	15
16	97.320	97.157	96.991	96.939	97.041	97.423	97.493	97.532	97.442	97.424	97.186	97.079	16
17	97.316	97.152	96.971	96.944	97.047	97.433	97.517	97.533	97.451	97.423	97.178	97.068	17
18	97.311	97.145	96.972	96.953	97.068	97.436	97.518	97.519	97.420	97.417	97.167	97.062	18
19	97.309	97.140	96.978	96.953	97.074	97.456	97.537	97.500	97.489	97.436	97.170	97.048	19
20	97.307	97.140	96.969	96.948	97.089	97.470	97.533	97.501	97.484	97.427	97.165	97.050A	20
21	97.306	97.128	96.968	96.946	97.103	97.496	97.502	97.516	97.468	97.415	97.162	97.051E	21
22	97.301	97.117	96.963	96.954	97.120	97.485	97.515	97.532	97.424	97.413	97.149	97.052E	22
23	97.300	97.115	96.956	96.957	97.138	97.449	97.503	97.547	97.451	97.422	97.135	97.053E	23
24	97.297	97.110	96.956	96.957	97.154	97.514	97.539	97.533	97.464	97.371	97.133	97.050E	24
25	97.291	97.105	96.955	96.963	97.163	97.504	97.518	97.512	97.439	97.350	97.121	97.047E	25
26	97.284	97.087	96.950	96.957	97.182	97.492	97.518	97.510	97.435	97.371	97.114	97.043E	26
27	97.267	97.080	96.953	96.953	97.193	97.496	97.536	97.497	97.467	97.329	97.123	97.038E	27
28	97.263	97.079	96.953	96.956	97.202	97.501	97.544	97.509	97.451	97.364	97.120	97.036E	28
29	97.262		96.953	96.960	97.209	97.474	97.529	97.516	97.390	97.261	97.117	97.035E	29
30	97.252		96.949	96.952	97.213	97.482	97.531	97.526	97.411	97.342	97.116	97.033E	30
31	97.247		96.958		97.230		97.551	97.602		97.356		97.026E	31
MEAN	97.334	97.167	96.998	96.948	97.064	97.390	97.517	97.532	97.474	97.406	97.199	97.071	MEAN
MAX	97.421	97.243	97.065	96.963	97.230	97.514	97.551	97.602	97.542	97.522	97.344	97.112	MAX
MIN	97.247	97.079	96.949	96.936	96.951	97.246	97.463	97.497	97.390	97.261	97.114	97.026	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 97.259
MAXIMUM DAILY, 97.602 ON AUG 31
MINIMUM DAILY, 96.936 ON APR 11
MAXIMUM INSTANTANEOUS,
97.658 AT 13:50 CST ON AUG 03

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 47 00 N
LONG 099 31 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
261 000 km²

SOUTHERN INDIAN LAKE NEAR SOUTH INDIAN LAKE - STATION NO. 06EC001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	257.386	257.187	257.022	256.926	256.921	257.165	257.436	257.514	257.499	257.418	257.299	257.104	1
2	257.379	257.185	257.011	256.919	256.922	257.171	257.444	257.515	257.477	257.405	257.304	257.095	2
3	257.371	257.186	257.004	256.928	256.928	257.176	257.450	257.521	257.485	257.430	257.300	257.089	3
4	257.364	257.185	256.998	256.932	256.923	257.180	257.440	257.516	257.482	257.447	257.267	257.091	4
5	257.349	257.172	256.991	256.924	256.923	257.192	257.433	257.511	257.490	257.425	257.260	257.087	5
6	257.356	257.174	256.987	256.914	256.937	257.193	257.434	257.509	257.487	257.419	257.248	257.081	6
7	257.349	257.171	256.984	256.918	256.938	257.188	257.439	257.511	257.452	257.405	257.238	257.080	7
8	257.348	257.158	256.983	256.917	256.940	257.188	257.453	257.515	257.490	257.396	257.235	257.083	8
9	257.344	257.155	256.982	256.917	256.944	257.206	257.455	257.508	257.472	257.364	257.224	257.082	9
10	257.346	257.151	256.983	256.916	256.948	257.199	257.452	257.506	257.461	257.387	257.220	257.074	10
11	257.344	257.142	256.989	256.916	256.955	257.223	257.453	257.497	257.484	257.429	257.207	257.073	11
12	257.326	257.122	256.985	256.916	256.957	257.260	257.444	257.487	257.461	257.403	257.197	257.073	12
13	257.316	257.122	256.981	256.915	256.962	257.299	257.457	257.515	257.458	257.404	257.199	257.067	13
14	257.313	257.108	256.968	256.911	256.970	257.289	257.461	257.519	257.457	257.406	257.193	257.064	14
15	257.301	257.102	256.964	256.915	256.980	257.307	257.457	257.492	257.464	257.385	257.184	257.060	15
16	257.296	257.098	256.965	256.911	256.989	257.327	257.460	257.501	257.441	257.401	257.169	257.060	16
17	257.288	257.093	256.959	256.916	257.002	257.342	257.468	257.496	257.441	257.394	257.164	257.053	17
18	257.277	257.088	256.951	256.918	257.010	257.345	257.472	257.485	257.442	257.385	257.154	257.044	18
19	257.273	257.078	256.953	256.921	257.025	257.361	257.481	257.476	257.467	257.381	257.147	257.035	19
20	257.266	257.078	256.947	256.906	257.038	257.376	257.479	257.481	257.445	257.384	257.147	257.033	20
21	257.264	257.078	256.945	256.913	257.050	257.383	257.463	257.487	257.434	257.382	257.142	257.036	21
22	257.263	257.057	256.939	256.916	257.069	257.387	257.470	257.487	257.421	257.375	257.145	257.038	22
23	257.262	257.054	256.929	256.919	257.078	257.377	257.463	257.497	257.431	257.366	257.136	257.038	23
24	257.260	257.050	256.931	256.923	257.094	257.397	257.481	257.492	257.436	257.355	257.126	257.033	24
25	257.255	257.036	256.926	256.920	257.109	257.398	257.474	257.484	257.432	257.335	257.109	257.026	25
26	257.246	257.034	256.921	256.913	257.118	257.403	257.472	257.475	257.430	257.347	257.103	257.024	26
27	257.241	257.029	256.921	256.907	257.126	257.406	257.484	257.474	257.439	257.349	257.102	257.022	27
28	257.227	257.026	256.921	256.906	257.132	257.407	257.501	257.479	257.423	257.322	257.103	257.023	28
29	257.213		256.921	256.926	257.141	257.404	257.524	257.479	257.392	257.295	257.098	257.021	29
30	257.202		256.928	256.925	257.147	257.410	257.497	257.477	257.397	257.307	257.101	257.014	30
31	257.196		256.930		257.150		257.502	257.514		257.302		257.013	31
MEAN	257.298	257.112	256.962	256.917	257.014	257.299	257.464	257.497	257.453	257.381	257.184	257.055	MEAN
MAX	257.386	257.187	257.022	256.932	257.150	257.410	257.524	257.521	257.499	257.447	257.304	257.104	MAX
MIN	257.196	257.026	256.921	256.906	256.921	257.165	257.433	257.474	257.392	257.295	257.098	257.013	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 257.221
MAXIMUM DAILY, 257.524 ON JUL 29
MINIMUM DAILY, 256.906 ON APR 20
MAXIMUM INSTANTANEOUS,
257.558 AT 23:35 CST ON AUG 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. GOVT. EXT.)

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 46 44 N
LONG 098 56 28 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1976

DRAINAGE AREA,
261 000 km²

SPLIT LAKE AT SPLIT LAKE - STATION NO. 05UF003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	167.399	167.284	167.320	166.476	166.366	166.605	166.488	166.205	166.450	166.314	166.889	167.261	1
2	167.425	167.275	167.246	166.441	166.371	166.615	166.479	166.221	166.477	166.300	166.994	167.289	2
3	167.424	167.275	167.206	166.414	166.376	166.606	166.440	166.229	166.490	166.341	167.070	167.279	3
4	167.408	167.291	167.148	166.397	166.372	166.608	166.441	166.244	166.489	166.448	167.114	167.282	4
5	167.402	167.320	167.113	166.383	166.382	166.593	166.420	166.255	166.479	166.524	167.139	167.342	5
6	167.408	167.343	167.099	166.363	166.401	166.582	166.410	166.268	166.493	166.609	167.126	167.363	6
7	167.417	167.361	167.062	166.345	166.436	166.578	166.402	166.259	166.489	166.669	167.071	167.378	7
8	167.405	167.383	167.011	166.322	166.436	166.580	166.383	166.227	166.503	166.707	167.023	167.368	8
9	167.415	167.397	166.959	166.299	166.446	166.553	166.350	166.214	166.516	166.741	166.978	167.344	9
10	167.433	167.384	166.918	166.293	166.454	166.553	166.326	166.232	166.531	166.766	166.957	167.344	10
11	167.444	167.319	166.883	166.294	166.471	166.523	166.303	166.275	166.523	166.786	166.949	167.354	11
12	167.454	167.265	166.873	166.283	166.513	166.537	166.321	166.286	166.543	166.795	166.994	167.350	12
13	167.463	167.240	166.868	166.263	166.557	166.543	166.344	166.318	166.544	166.753	167.037	167.325	13
14	167.479	167.228	166.830	166.262	166.586	166.560	166.364	166.291	166.562	166.815	167.126	167.321	14
15	167.485	167.230	166.801	166.252	166.587	166.567	166.336	166.266	166.559	166.809	167.222	167.332	15
16	167.512	167.225	166.783	166.251	166.597	166.584	166.291	166.252	166.567	166.797	167.277	167.339	16
17	167.538	167.222	166.775	166.247	166.611	166.588	166.260	166.244	166.558	166.796	167.257	167.333	17
18	167.523	167.253	166.787	166.241	166.625	166.581	166.236	166.249	166.554	166.802	167.175	167.315	18
19	167.485	167.283	166.798	166.242	166.640	166.573	166.236	166.253	166.533	166.770	167.119	167.279	19
20	167.440	167.304	166.781	166.252	166.662	166.551	166.230	166.251	166.499	166.788	167.093	167.239	20
21	167.414	167.287	166.758	166.260	166.674	166.516	166.231	166.237	166.462	166.817	167.086	167.215	21
22	167.391	167.270	166.729	166.251	166.691	166.518	166.224	166.233	166.471	166.814	167.077	167.200	22
23	167.372	167.272	166.742	166.252	166.716	166.533	166.228	166.239	166.452	166.813	167.071	167.197	23
24	167.366	167.284	166.754	166.272	166.746	166.510	166.208	166.223	166.374	166.833	167.070	167.188	24
25	167.333	167.304	166.754	166.279	166.736	166.512	166.211	166.232	166.356	166.843	167.097	167.185	25
26	167.334	167.338	166.776	166.294	166.712	166.537	166.200	166.228	166.322	166.840	167.166	167.185	26
27	167.350	167.354	166.775	166.319	166.684	166.521	166.224	166.236	166.290	166.837	167.252	167.191	27
28	167.348	167.372	166.714	166.334	166.690	166.484	166.243	166.295	166.279	166.827	167.279	167.209	28
29	167.342		166.642	166.358	166.674	166.497	166.237	166.335	166.278	166.847	167.253	167.217	29
30	167.314		166.586	166.366	166.672	166.499	166.224	166.353	166.288	166.831	167.252	167.223	30
31	167.297		166.528		166.654		166.209	166.373		166.817		167.232A	31
MEAN	167.414	167.299	166.872	166.310	166.566	166.554	166.306	166.259	166.464	166.724	167.107	167.280	MEAN
MAX	167.538	167.397	167.320	166.476	166.746	166.615	166.488	166.373	166.567	166.847	167.279	167.378	MAX
MIN	167.297	167.222	166.528	166.241	166.366	166.484	166.200	166.205	166.278	166.300	166.889	167.185	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 166.760
MAXIMUM DAILY, 167.538 ON JAN 17
MINIMUM DAILY, 166.200 ON JUL 26
MAXIMUM INSTANTANEOUS,
167.547 AT 16:35 CST ON JAN 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 14 43 N
LONG 096 05 40 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1960

DRAINAGE AREA,
1 050 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. GOVT. EXT.)

ST. MALO LAKE NEAR ST. MALO - STATION NO. 05OE003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	255.975	255.988	256.000	256.173E	---	256.116	256.144	256.032	255.882	255.782	255.707	255.681	1
2	255.976	255.987	256.000	256.186A	---	256.138	256.137	256.030	255.878	255.775	255.706	255.681	2
3	255.976	255.989	256.000	256.212	---	256.139	256.144	256.024	255.872	255.769	255.704	255.681	3
4	255.977	255.989	255.999	256.203	---	256.140	256.187	256.018	255.868	255.762	255.702	255.682	4
5	255.977	255.988	256.000	256.170	---	256.140	256.200	256.014	255.864	255.759	255.702	255.682	5
6	255.977	255.988	255.999	256.159A	---	256.141	256.208	256.011	255.862	255.757	255.702	255.682	6
7	255.978	255.988	255.999	---	---	256.141	256.212	256.001	255.859	255.756	255.700	255.682	7
8	255.978	255.988	255.999	---	256.124A	256.143	256.228	255.994	255.853	255.753	255.696	255.683	8
9	255.979	255.987	255.999	---	256.124	256.143	256.233	255.988	255.848	255.748	255.696	255.683	9
10	255.979	255.988	255.999	---	256.124	256.144	256.233	255.982	255.845	255.747	255.695	255.684	10
11	255.979	255.989	255.999	---	256.120	256.151A	256.223	255.979	255.842	255.745	255.695	255.684	11
12	255.980	255.989	256.007	---	256.118	256.164E	256.199	255.977	255.838	255.745	255.694	255.685	12
13	255.981	255.988	256.031A	---	256.116	256.167E	256.182	255.974	255.832	255.744	255.694	255.687	13
14	255.981	255.988	256.057A	---	256.116	256.167E	256.167	255.970	255.829	255.743	255.694	255.688	14
15	255.980	255.988	256.074	---	256.113	256.168E	256.152	255.966	255.826	255.739	255.694	255.689	15
16	255.980	255.987	256.091	---	256.110	256.168E	256.141	255.961	255.816	255.739	255.693	255.690	16
17	255.980	255.988	256.091	---	256.111	256.166E	256.129	255.955	255.810	255.735	255.693	255.692	17
18	255.981	255.988	256.094	---	256.116	256.162E	256.117	255.947	255.821	255.734	255.693	255.693	18
19	255.982	255.989	256.100	---	256.116	256.161E	256.108	255.942	255.818	255.731	255.693	255.694	19
20	255.981	255.989	256.102	---	256.116	256.163E	256.103A	255.935	255.816	255.725	255.695	255.695	20
21	255.983	255.989	256.102	---	256.116	256.170E	256.097	255.930	255.815	255.724	255.695A	255.695	21
22	255.984	255.990	256.098	---	256.116	256.195A	256.092	255.925	255.809	255.719	255.693E	255.695	22
23	255.984	255.991	256.096	---	256.116	256.197	256.082	255.921	255.806	255.713	255.693E	255.695	23
24	255.984	255.991	256.097	---	256.116	256.195	256.075	255.917	255.802	255.713	255.692E	255.695	24
25	255.982	255.992	256.098	---	256.116	256.186	256.065	255.915	255.794	255.713	255.690E	255.695	25
26	255.988	255.994	256.101	---	256.116	256.176	256.056	255.912	255.791	255.711	255.687E	255.695	26
27	255.988	255.998	256.101	---	256.116	256.165	256.057	255.909	255.789	255.710	255.685E	255.696	27
28	255.987	255.999	256.101	---	256.115	256.157	256.063	255.904	255.788	255.709	255.683E	255.696	28
29	255.989		256.104	---	256.115	256.154	256.055	255.899	255.787	255.708	255.681A	255.696	29
30	255.988		256.126	---	256.116	256.150	256.045	255.895	255.786	255.707	255.681	255.695	30
31	255.990		256.158		256.115		256.037	255.888		255.708		255.696	31
MEAN	255.981	255.990	256.059	---	---	256.159	256.135	255.959	255.828	255.736	255.694	255.689	MEAN
MAX	255.990	255.999	256.158	---	---	256.197	256.233	256.032	255.882	255.782	255.707	255.696	MAX
MIN	255.975	255.987	255.999	---	---	256.116	256.037	255.888	255.786	255.707	255.681	255.681	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 256.233 ON JUL 09
MINIMUM DAILY, 255.681A ON NOV 29
MAXIMUM INSTANTANEOUS,
256.234 AT 18:25 CST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 06 N
LONG 096 56 13 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1959

DRAINAGE AREA,
854 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM 1928 ADJUSTMENT

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "ST. MALO RESERVOIR NEAR ST. MALO"

STE. ROSE RESERVOIR NEAR STE. ROSE - STATION NO. 05LJ810

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	264.756E	264.672E	264.615E	---	263.974E	---	263.843E	264.403	264.810	264.799	264.829E	264.809E	1
2	264.755	264.668E	264.615	---	263.936E	---	263.703	264.373E	264.805E	264.799E	264.829	264.811E	2
3	264.753E	264.665	264.615E	---	263.898E	---	263.703E	264.343	264.800	264.799	264.826E	264.812E	3
4	264.750E	264.660E	264.615E	---	263.860E	264.793	263.703	264.256E	264.790E	264.799E	264.822E	264.813	4
5	264.747E	264.655	264.615E	---	263.823E	264.661	263.710E	264.170E	264.780	264.799	264.819	264.810E	5
6	264.745	264.655E	264.615	---	263.785E	263.633	263.716E	264.083	264.775E	264.802E	264.822E	264.806E	6
7	264.738E	264.655E	264.622E	---	263.747E	263.441E	263.723	264.013E	264.770	264.806E	264.825	264.803	7
8	264.732E	264.655E	264.628E	---	263.709	263.249	264.333E	263.943	264.763E	264.809	264.824E	264.805E	8
9	264.725	264.655E	264.635	---	263.509E	263.309	265.003	263.918E	264.757E	264.809E	264.823E	264.806E	9
10	264.725E	264.655	264.678E	---	263.309	263.114E	264.958E	263.893	264.750	264.809	264.822	264.808	10
11	264.725E	264.652E	264.722E	---	263.662E	262.919	264.913	264.333E	264.740E	264.814E	264.822E	264.809E	11
12	264.725	264.650E	264.765	---	264.015	262.860E	264.878E	264.773E	264.730	264.819	264.822	264.810E	12
13	264.722E	264.647E	264.895	---	264.016E	262.800	264.843	265.213	264.720E	264.819E	264.817E	264.811E	13
14	264.718E	264.645	---	---	264.016	262.770E	264.823E	265.213	264.710	264.819E	264.812	264.812E	14
15	264.715	264.642E	---	---	264.024	262.740	264.803E	265.303	---	264.819	264.817E	264.813	15
16	264.713E	264.638E	---	---	265.515	262.670E	264.783	265.045E	---	264.819E	264.822	264.815E	16
17	264.710E	264.635	---	---	264.795	262.600E	264.848E	264.788E	---	264.819	264.979E	264.818	17
18	264.708E	264.630E	---	---	263.802E	262.530	264.913	264.530	---	264.819E	265.135E	264.813	18
19	264.705	264.625	---	---	262.809	262.728E	264.868E	264.565E	---	264.819E	265.292	264.811E	19
20	264.700E	264.625E	---	---	262.964E	262.926E	264.823	264.600	---	264.819E	264.826	264.810E	20
21	264.695E	264.625E	---	---	263.119	263.123E	264.810E	264.650E	---	264.819E	264.819E	264.808	21
22	264.690E	264.625E	---	---	263.019E	263.321	264.796E	264.700	---	264.819	264.813	264.808E	22
23	264.685	264.625	---	---	262.959	263.436E	264.783	264.743E	---	264.819E	264.813E	264.808E	23
24	264.685E	264.622E	---	---	---	263.550E	264.743E	264.787E	---	264.819	264.813E	264.808	24
25	264.685E	264.618E	---	---	---	263.665	264.703	264.830	---	264.822E	264.813E	264.807E	25
26	264.685	264.615	---	---	---	263.118E	264.673E	264.820E	264.781	264.824	264.813	264.806E	26
27	264.683E	264.615E	---	264.125	---	262.571	264.643	264.810	264.785E	264.826E	264.812E	264.804E	27
28	264.681E	264.615E	---	264.087E	---	263.042E	264.626E	264.805E	264.788E	264.827E	264.810E	264.803	28
29	264.679E		---	264.049E	---	263.512E	264.610E	264.800	264.792E	264.829	264.809E	264.803E	29
30	264.677E		---	264.012E	---	263.983	264.593	264.803E	264.795E	264.829E	264.808	264.803E	30
31	264.675		---		---		264.498E	264.807E		264.829		264.803	31
MEAN	264.712	264.641	---	---	---	---	264.529	264.591	---	264.815	264.850	264.809	MEAN
MAX	264.756	264.672	---	---	---	---	265.003	265.303	---	264.829	265.292	264.818	MAX
MIN	264.675	264.615	---	---	---	---	263.703	263.893	---	264.799	264.808	264.803	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 03 00 N
LONG 099 31 46 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1965

DRAINAGE AREA,
1 110 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PRIOR TO 1988 PUBLISHED AS "TURTLE RIVER ABOVE STE. ROSE DU LAC DAM"

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.162B	1.52 B	4.33	5.42	3.40	1.42	0.697	0.387	---	---	1
2	---	---	0.162B	0.982B	4.15	5.16	3.03	1.37	0.677	0.390	---	---	2
3	---	---	0.162B	0.848B	4.15	4.86	3.57	1.30	0.641	0.391	---	---	3
4	---	---	0.162B	0.680B	4.87	4.67	8.04	1.24	0.592	0.396	---	---	4
5	---	---	0.162B	0.566B	7.14	4.67	7.09	1.21	0.565	0.401	---	---	5
6	---	---	0.162B	0.490B	12.1	4.67	5.45	1.14	0.537	0.400	---	---	6
7	---	---	0.162B	0.414B	11.7	7.65	5.09	1.08	0.536	0.391	---	---	7
8	---	---	0.168B	0.376B	7.80	6.70	4.43	1.03	0.542	0.390	---	---	8
9	---	---	0.174B	0.353B	7.55	5.72	4.02	0.986	0.529	0.399	---	---	9
10	---	---	0.180B	0.323B	8.32	5.25	3.63	0.992	0.515	0.416	---	---	10
11	---	---	0.180B	0.315B	9.90	5.15	3.74	0.971	0.489	0.438	---	---	11
12	---	---	0.180B	0.315B	10.4	4.80	3.34	0.918	0.484	0.440	---	---	12
13	---	---	0.180B	0.315B	11.0	4.51	3.02	0.875	0.501	0.449	---	---	13
14	---	---	0.180B	0.315B	11.3	4.33	2.76	0.853	0.503	0.445	---	---	14
15	---	---	0.180B	0.338B	13.1	4.11	2.57	0.828	0.485	0.444	---	---	15
16	---	---	0.180B	0.361B	21.9	3.85	2.45	0.846	0.461	0.412	---	---	16
17	---	---	0.180B	0.414B	19.9	3.62	2.44	0.887	0.435	0.417	---	---	17
18	---	---	0.180B	0.764E	16.2	3.51	2.29	0.811	0.405	0.336	---	---	18
19	---	---	0.180B	1.90 A	16.9	3.31	2.18	0.786	0.404	0.507	---	---	19
20	---	---	0.180B	2.09	19.4	3.21	2.15	0.751	0.485	0.468	---	---	20
21	---	---	0.180B	3.08	18.0	3.14	2.07	0.702	0.556	0.455	---	---	21
22	---	---	0.180B	5.48	17.2	3.20	1.98	0.925	0.495	0.452	---	---	22
23	---	---	0.180B	10.6	15.0	3.30	1.90	0.945	0.457	0.449	---	---	23
24	---	---	0.180B	13.4	13.4	3.14	1.78	0.884	0.411	0.449	---	---	24
25	---	---	0.180B	10.9	11.6	2.99	1.71	1.07	0.390	0.451	---	---	25
26	---	---	0.180B	6.74	9.86	2.82	1.66	0.905	0.372	0.472	---	---	26
27	---	---	0.180B	5.43 A	8.48	3.10	1.66	0.930	0.364	0.465	---	---	27
28	---	---	0.180B	4.89 E	7.42	3.47	1.64	0.869	0.375	0.376	---	---	28
29	---	---	0.180B	4.76 E	6.49	3.61	1.57	0.778	0.379	0.522	---	---	29
30	---		0.490B	4.44 A	5.63	4.02	1.50	0.710	0.392	0.442	---	---	30
31	---		1.99 B		5.09		1.46	0.673		0.490		---	31
TOTAL	---	---	7.556	83.399	340.28	127.96	93.62	29.685	14.674	13.340	---	---	TOTAL
MEAN	---	---	0.244	2.78	11.0	4.27	3.02	0.958	0.489	0.430	---	---	MEAN
MAX	---	---	1.99	13.4	21.9	7.65	8.04	1.42	0.697	0.522	---	---	MAX
MIN	---	---	0.162	0.315	4.15	2.82	1.46	0.673	0.364	0.336	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.90
MAXIMUM DAILY, 21.9 ON MAY 16
MINIMUM DAILY, 0.162B ON MAR 01
MAXIMUM INSTANTANEOUS,
27.8 AT 16:03 CST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 43 40 N
LONG 101 06 45 W
DRAINAGE AREA, 301 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1958

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	8 090
FEB	---	AUG	2 560
MAR	653	SEP	1 270
APR	7 210	OCT	1 150
MAY	29 400	NOV	---
JUN	11 100	DEC	---

TOTAL DISCHARGE, 61 400 dam³

STEPHENFIELD LAKE NEAR STEPHENFIELD - STATION NO. 05OF008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	294.234	294.167	293.862	296.158	295.729	295.707	295.758	295.552	295.137	294.916	294.802	294.731	1
2	294.235	294.159	293.848	296.146	295.731	295.819	295.757	295.541	295.123	294.908	294.798	294.726	2
3	294.230	294.152	293.835	296.130	295.733	295.930	295.766	295.525	295.114	294.904	294.789	294.730	3
4	294.227	294.145	293.823	296.120	295.739	295.878	295.779	295.504	295.107	294.895	294.782	294.735	4
5	294.226	294.136	293.807	296.045	295.739	295.824	295.765	295.491	295.100	294.883	294.783	294.737	5
6	294.227	294.126	293.795	295.972	295.737	295.794	295.759	295.477	295.092	294.880	294.779	294.736	6
7	294.229	294.115	293.785	295.930	295.730	295.778	295.867	295.460	295.080	294.874	294.777	294.740	7
8	294.230	294.109	293.787A	295.915	295.724	295.790	295.906	295.439	295.071	294.873	294.777	294.741	8
9	294.229	294.095	293.791A	295.897	295.714	295.804	295.831	295.419	295.064	294.873	294.773	294.743	9
10	294.231	294.090	293.794	295.867	295.715	295.790	295.784	295.397	295.053	294.873	294.768	294.742	10
11	294.238	294.082	293.800	295.848	295.714	295.777	295.757	295.385	295.047	294.869	294.765	294.748	11
12	294.239	294.068	293.861	295.835	295.711	295.775	295.741	295.379	295.031	294.852	294.761	294.757	12
13	294.242	294.058	294.187	295.832	295.712	295.796	295.731	295.369	295.024	294.848	294.761	294.757	13
14	294.245	294.050	294.629	295.833	295.711	295.794	295.722	295.354	295.014	294.842	294.763	294.759	14
15	294.245	294.036	294.810	295.821	295.710	295.789	295.714	295.337	295.002	294.837	294.757	294.757	15
16	294.246	294.021	294.927	295.803	295.726	295.780	295.707	295.321	294.992	294.832	294.753	294.755	16
17	294.244	294.009A	295.006	295.790	295.763	295.772	295.702	295.306	294.982	294.827	294.750	294.750	17
18	294.245	293.996	295.105	295.784	295.787	295.759	295.695	295.291	295.004	294.823	294.744	294.747	18
19	294.243	293.981	295.213	295.796	295.781	295.750	295.691	295.276	294.996	294.817	294.738	294.746	19
20	294.242	293.970	295.294	295.806	295.773	295.799	295.686	295.263	294.987	294.817	294.737	294.741A	20
21	294.241	293.961	295.343	295.804	295.766	295.851	295.682	295.251	294.983	294.812	294.748	294.737E	21
22	294.241	293.949	295.375	295.794	295.762	295.832	295.677	295.239	294.969	294.810	294.746	294.735A	22
23	294.239	293.936	295.400	295.789	295.757	295.806	295.672	295.242	294.964	294.809	294.735	294.736	23
24	294.236	293.923	295.418	295.777	295.750	295.786	295.668	295.228	294.962	294.807	294.733	294.736	24
25	294.229	293.910A	295.433	295.766	295.741	295.767	295.661	295.217	294.953	294.807	294.730	294.731A	25
26	294.221	293.899	295.441	295.753	295.735	295.745	295.654	295.203	294.947	294.814	294.734	294.730A	26
27	294.212	293.885	295.448	295.742	295.731	295.733	295.640	295.194	294.939	294.811	294.733	294.735	27
28	294.205	293.872	295.456	295.755	295.727	295.735	295.621	295.181	294.929	294.809	294.732	294.733	28
29	294.196		295.472	295.745	295.720	295.746	295.602	295.171	294.927	294.809	294.735	294.726A	29
30	294.183A		295.535	295.734	295.715	295.753	295.584	295.161	294.920	294.805	294.738	294.727A	30
31	294.177		295.947		295.714		295.567	295.155		294.803		294.726	31
MEAN	294.229	294.032	294.685	295.866	295.735	295.789	295.714	295.333	295.017	294.843	294.757	294.740	MEAN
MAX	294.246	294.167	295.947	296.158	295.787	295.930	295.906	295.552	295.137	294.916	294.802	294.759	MAX
MIN	294.177	293.872	293.785	295.734	295.710	295.707	295.567	295.155	294.920	294.803	294.730	294.726	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 295.067
MAXIMUM DAILY, 296.158 ON APR 01
MINIMUM DAILY, 293.785 ON MAR 07
MAXIMUM INSTANTANEOUS,
296.197 AT 16:52 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 17 N
LONG 098 16 49 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1964

DRAINAGE AREA,
948 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "STEPHENFIELD RESERVOIR NEAR STEPHENFIELD"

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	0	0	0	0	0	---	---	1
2	---	---	0	0	0	0	0	0	0	0	---	---	2
3	---	---	0	0	0	0	0	0	0	0	---	---	3
4	---	---	0	0	0	0	0	0	0	0	---	---	4
5	---	---	0	0	0	0	0	0	0	0	---	---	5
6	---	---	0	0	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0	0	0	0	0	---	---	8
9	---	---	0	0	0	0	0	0	0	0	---	---	9
10	---	---	0	0	0	0	0	0	0	0	---	---	10
11	---	---	0	0	0	0	0	0	0	0	---	---	11
12	---	---	0	0	0	0	0	0	0	0	---	---	12
13	---	---	0	0	0	0	0	0	0	0	---	---	13
14	---	---	0	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	0	0	0	0	0	0	---	---	15
16	---	---	0	0	0	0	0	0	0	0	---	---	16
17	---	---	0	0	0	0	0	0	0	0	---	---	17
18	---	---	0	0	0	0	0	0	0	0	---	---	18
19	---	---	0	0	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	0	0	0	0	0	---	---	21
22	---	---	0	0	0	0	0	0	0	0	---	---	22
23	---	---	0	0	0	0	0	0	0	0	---	---	23
24	---	---	0	0	0	0	0	0	0	0	---	---	24
25	---	---	0	0	0	0	0	0	0	0	---	---	25
26	---	---	0	0	0	0	0	0	0	0	---	---	26
27	---	---	0	0	0	0	0	0	0	0	---	---	27
28	---	---	0	0	0	0	0	0	0	0	---	---	28
29	---	---	0	0	0	0	0	0	0	0	---	---	29
30	---		0	0	0	0	0	0	0	0	---	---	30
31	---		0		0		0	0		0		---	31
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0 ON MAR 01
MINIMUM DAILY, 0 ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 23 52 N
LONG 101 05 54 W

DRAINAGE AREA, 460 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

STONY CREEK NEAR NEEPAWA - STATION NO. 05LL009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.82 B	0.331	0.082	0.018	0.005	0.001	0	---	---	1
2	---	---	0 B	1.35 B	0.279	0.068	0.015	0.007	0	0	---	---	2
3	---	---	0 B	1.99 B	0.240	0.064	0.019	0.003	0	0	---	---	3
4	---	---	0 B	1.37 B	0.228	0.059	0.030	0	0	0	---	---	4
5	---	---	0 B	0.541B	0.217	0.065	0.027	0	0	0	---	---	5
6	---	---	0 B	0.566B	0.178	0.085	0.037	0	0	0	---	---	6
7	---	---	0 B	0.578B	0.166	0.057	0.090	0	0	0	---	---	7
8	---	---	0 B	0.478B	0.165	0.124	0.084	0	0	0	---	---	8
9	---	---	0 B	0.314B	0.135	0.132	0.055	0	0	0	---	---	9
10	---	---	0 B	0.283B	0.126	0.090	0.036	0	0	0	---	---	10
11	---	---	0 B	0.243B	0.109	0.096	0.023	0	0	0	---	---	11
12	---	---	0 E	0.210B	0.113	0.105	0.018	0	0	0	---	---	12
13	---	---	0.061B	0.201B	0.095	0.079	0.015	0	0	0.023	---	---	13
14	---	---	0.074B	0.246B	0.106	0.062	0.013	0	0	0.014	---	---	14
15	---	---	0.086B	0.268B	0.081	0.056	0.012	0	0	0.009	---	---	15
16	---	---	0.136B	0.301B	0.830	0.045	0.011	0	0	0.023	---	---	16
17	---	---	0.059B	0.412B	1.39	0.041	0.018	0	0	0.020	---	---	17
18	---	---	0.168B	0.610B	1.59	0.053	0.027	0	0	0.018	---	---	18
19	---	---	0.145B	1.18	1.12	0.059	0.025	0	0	0.020	---	---	19
20	---	---	0.128B	1.54	0.745	0.066	0.019	0	0	0.024	---	---	20
21	---	---	0.117B	1.70	0.515	0.069	0.015	0	0	0.029	---	---	21
22	---	---	0.105B	1.50	0.433	0.049	0.012	0	0	0.029	---	---	22
23	---	---	0.106B	1.16	0.408	0.037	0.011	0	0	0.029	---	---	23
24	---	---	0.102B	0.977	0.331	0.031	0.009	0	0	0.033	---	---	24
25	---	---	0.111B	1.13	0.210	0.027	0.005	0	0	0.039	---	---	25
26	---	---	0.123B	1.06	0.168	0.020	0.002	0.017	0	0.039	---	---	26
27	---	---	0.156B	0.771	0.135	0.018	0.005	0.023	0	0.035	---	---	27
28	---	---	0.241B	0.606	0.115	0.018	0.003	0.016	0	0.030	---	---	28
29	---	---	0.451B	0.426	0.194	0.017	0.001	0.015	0	0.032	---	---	29
30	---		1.22 B	0.416	0.144	0.032	0	0.013	0	0.033	---	---	30
31	---		2.05 B		0.099		0	0.009		0.036		---	31
TOTAL	---	---	5.639	24.247	10.996	1.806	0.655	0.110	0.001	0.515	---	---	TOTAL
MEAN	---	---	0.182	0.808	0.355	0.060	0.021	0.004	0	0.017	---	---	MEAN
MAX	---	---	2.05	1.99	1.59	0.132	0.090	0.023	0.001	0.039	---	---	MAX
MIN	---	---	0	0.201	0.081	0.017	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.179
MAXIMUM DAILY, 2.05B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 13 58 N
LONG 099 34 00 W
DRAINAGE AREA, 163 km²

B - ICE CONDITIONS

NATURAL FLOW

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "NEEPAWA CREEK NEAR NEEPAWA"

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	56.6
FEB	---	AUG	9.50
MAR	487	SEP	0.086
APR	2 090	OCT	44.5
MAY	950	NOV	---
JUN	156	DEC	---

TOTAL DISCHARGE, 3 790 dam³

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	7.44 B	0.080	0.117	0.016	0.014	0	0	---	---	1
2	---	---	0 B	6.80 B	0.066	4.13	0.012	0.011	0	0	---	---	2
3	---	---	0 B	7.71 B	0.054	2.24	0.013	0.009	0	0	---	---	3
4	---	---	0 B	5.34 B	0.043	0.539	0.012	0.008	0	0	---	---	4
5	---	---	0 B	4.44 B	0.040	0.278	0.012	0.010	0	0	---	---	5
6	---	---	0 B	3.54 B	0.044	0.218	0.017	0.013	0	0	---	---	6
7	---	---	0 B	5.91 B	0.049	0.188	0.020	0.013	0	0	---	---	7
8	---	---	0 B	4.17 B	0.041	0.185	0.028	0.009	0	0	---	---	8
9	---	---	0 B	2.74 B	0.044	0.238	0.025	0.008	0	0	---	---	9
10	---	---	0 B	2.41 B	0.055	0.427	0.020	0.007	0	0	---	---	10
11	---	---	0 B	2.23 B	0.063	0.676	0.017	0.007	0	0	---	---	11
12	---	---	0 B	2.04 B	0.073	0.564	0.016	0.007	0	0	---	---	12
13	---	---	0 B	2.48 B	0.084	0.542	0.016	0.008	0	0	---	---	13
14	---	---	0 B	2.51 B	0.087	0.589	0.017	0.005	0	0	---	---	14
15	---	---	0 B	2.74 B	0.097	0.379	0.014	0.005	0	0	---	---	15
16	---	---	0 B	1.39 B	0.098	0.258	0.016	0.003	0	0	---	---	16
17	---	---	0 B	1.29 A	0.098	0.196	0.015	0.001	0	0	---	---	17
18	---	---	0 B	1.36	0.128	0.959	0.014	0.001	0	0	---	---	18
19	---	---	0 B	1.42	0.129	0.996	0.014	0.002	0	0	---	---	19
20	---	---	0 B	1.59	0.116	0.777	0.017	0.001	0	0	---	---	20
21	---	---	0 B	0.979	0.114	0.900	0.018	0.001	0	0	---	---	21
22	---	---	0 B	0.500	0.105	0.451	0.020	0.002	0	0	---	---	22
23	---	---	0 B	0.276	0.106	0.240	0.020	0.001	0	0	---	---	23
24	---	---	0 B	0.130	0.110	0.141	0.020	0	0	0	---	---	24
25	---	---	0 B	0.160	0.107	0.092	0.017	0	0	0	---	---	25
26	---	---	0 B	0.156	0.102	0.063	0.016	0	0	0	---	---	26
27	---	---	0 B	0.132	0.097	0.047	0.015	0	0	0	---	---	27
28	---	---	0.001B	0.085	0.105	0.033	0.012	0	0	0E	---	---	28
29	---	---	0.100B	0.087A	0.102	0.021	0.010	0	0	0A	---	---	29
30	---		3.50 B	0.082	0.106	0.015	0.011	0	0	0	---	---	30
31	---		6.06 B		0.115		0.012	0		0A		---	31
TOTAL	---	---	9.661	72.137	2.658	16.499	0.502	0.146	0	0	---	---	TOTAL
MEAN	---	---	0.312	2.40	0.086	0.550	0.016	0.005	0	0	---	---	MEAN
MAX	---	---	6.06	7.71	0.129	4.13	0.028	0.014	0	0	---	---	MAX
MIN	---	---	0	0.082	0.040	0.015	0.010	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.415
MAXIMUM DAILY, 7.71B ON APR 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
9.92B AT 17:30 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 20 N
LONG 097 20 40 W
DRAINAGE AREA, 534 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	43.4
FEB	---	AUG	12.6
MAR	835	SEP	0
APR	6 230	OCT	0
MAY	230	NOV	---
JUN	1 430	DEC	---

TOTAL DISCHARGE, 8 780 dam³

SWAN CREEK NEAR LUNDAR - STATION NO. 05LN003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.819B	0.385	0.032	0.017	0.037	0	0.001	---	---	1
2	---	---	0 B	0.928B	0.402	0.030	0.009	0.012	0	0.001	---	---	2
3	---	---	0 B	1.17 B	0.382	0.021	0.126	0.002	0	0.001	---	---	3
4	---	---	0 B	1.72 B	0.351	0.012	0.070	0.001	0	0.001	---	---	4
5	---	---	0 B	1.85	0.335	0.015	0.079	0	0	0	---	---	5
6	---	---	0 B	1.84	0.307	0.013	0.110	0	0	0.001	---	---	6
7	---	---	0 B	1.54	0.283	0.012	0.102	0.006	0	0	---	---	7
8	---	---	0 B	1.18	0.275	0.022	0.114	0.003	0	0	---	---	8
9	---	---	0 B	0.950	0.258	0.014	0.086	0.001	0	0	---	---	9
10	---	---	0 B	0.685	0.236	0.013	0.096	0	0	0	---	---	10
11	---	---	0 B	0.440	0.217	0.030	0.065	0.001	0	0.001	---	---	11
12	---	---	0 B	0.283	0.192	0.040	0.049	0.001	0	0	---	---	12
13	---	---	0 B	0.214	0.172	0.046	0.041	0.001	0.001	0.001	---	---	13
14	---	---	0 B	0.183	0.133	0.041	0.750	0.006	0.001	0.001	---	---	14
15	---	---	0.001B	0.290	0.080	0.037	0.350	0.001	0.001	0.001	---	---	15
16	---	---	0 B	0.346	0.098	0.029	0.053	0.002	0	0.001	---	---	16
17	---	---	0 B	0.317	0.155	0.020	0.035	0.001	0	0.001	---	---	17
18	---	---	0 B	0.307	0.173	0.017	0.012	0	0.001	0	---	---	18
19	---	---	0 B	0.374	0.175	0.009	0.043	0	0.001	0	---	---	19
20	---	---	0 B	0.438	0.176	0.053	0.161	0.001	0.002	0.001	---	---	20
21	---	---	0 B	0.568	0.169	0.039	0.098	0	0.006	0.001	---	---	21
22	---	---	0 B	0.497	0.199	0.187	0.057	0	0.001	0	---	---	22
23	---	---	0.001B	0.450	0.199	0.150	0.029	0.001	0	0.001	---	---	23
24	---	---	0.001B	0.365	0.187	0.097	0.026	0.001	0.001	0.001	---	---	24
25	---	---	0 B	0.391	0.168	0.070	0.026	0.011	0.001	0.001	---	---	25
26	---	---	0 B	0.429	0.142	0.040	0.019	0.002	0	0.001	---	---	26
27	---	---	0 B	0.399	0.117	0.030	0.016	0.010	0	0.003	---	---	27
28	---	---	0.009B	0.390	0.156	0.158	0.017	0.004	0	0.001	---	---	28
29	---	---	0.051B	0.416	0.098	0.056	0.011	0.001	0	0.001	---	---	29
30	---		0.203B	0.421	0.051	0.027	0.003	0.001	0.001	0.001A	---	---	30
31	---		0.559B		0.039		0.002	0		0.001E		---	31
TOTAL	---	---	0.825	20.200	6.300	1.360	2.672	0.107	0.017	0.024	---	---	TOTAL
MEAN	---	---	0.027	0.673	0.203	0.045	0.086	0.004	0.001	0.001	---	---	MEAN
MAX	---	---	0.559	1.85	0.402	0.187	0.750	0.037	0.006	0.003	---	---	MAX
MIN	---	---	0	0.183	0.039	0.009	0.002	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 0.129
MAXIMUM DAILY, 1.85 ON APR 05
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.09 AT 10:51 CST ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 43 17 N
LONG 098 05 24 W
DRAINAGE AREA 723 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	231
FEB	---	AUG	9.24
MAR	71.3	SEP	1.47
APR	1 750	OCT	2.07
MAY	544	NOV	---
JUN	118	DEC	---

REMARKS - PRIOR TO 1988 PUBLISHED UNDER THE NAME "BURNT LAKE DRAIN NO. 2 NEAR LUNDAR"

TOTAL DISCHARGE, 2 730 dam³

SWAN LAKE NEAR NOVRA - STATION NO. 05LE007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	259.204	259.515	259.238	259.031	258.752	258.637	---	---	1
2	---	---	---	---	259.223	259.487	259.235	259.040	258.783	258.644	---	---	2
3	---	---	---	---	259.244	259.482	259.257	258.939	258.728	258.558	---	---	3
4	---	---	---	258.505A	259.256	259.496	259.240	258.999	258.744	258.508	---	---	4
5	---	---	---	---	259.276	259.449	259.226	258.971	258.732	258.564	---	---	5
6	---	---	---	---	259.286	259.460	259.249	258.966	258.708	258.578	---	---	6
7	---	---	---	---	259.297	259.464	259.220	258.973	258.722	258.594	---	---	7
8	---	---	---	---	259.337	259.449	259.218	258.901	258.690	258.607	---	---	8
9	---	---	---	---	259.360	259.440	259.207	258.888	258.713	258.609	---	---	9
10	---	---	---	258.678	259.379	259.451	259.226	258.929	258.728	258.600	---	---	10
11	---	---	---	258.696	259.393	259.436	259.208	258.935	258.705	258.513	---	---	11
12	---	---	---	258.714	259.410	259.415	259.207	258.922	258.767	258.610	---	---	12
13	---	---	---	258.721	259.425	259.384	259.205	258.906	258.665	258.581	---	---	13
14	---	---	---	258.738	259.438	259.382	259.178	258.854	258.723	258.560	---	---	14
15	---	---	---	258.748	259.446	259.379	259.160	258.869	258.684	258.566	---	---	15
16	---	---	---	258.757	259.426	259.375	259.171	258.839	258.733	258.535	---	---	16
17	---	---	---	258.775	259.461	259.353	259.129	258.841	258.719	258.540	---	---	17
18	---	---	---	258.794	259.506	259.356	259.137	258.852	258.659	258.605	---	---	18
19	---	---	---	258.810	259.522	259.343	259.132	258.837	258.677	258.584	---	---	19
20	---	---	---	258.830	259.533	259.293	259.103	258.830	258.663	258.541	---	---	20
21	---	---	---	258.868	259.551	259.270	259.125	258.831	258.620	258.572	---	---	21
22	---	---	---	258.899	259.551	259.284	259.124	258.829	258.667	258.567	---	---	22
23	---	---	---	258.943	259.562	259.285	259.115	258.826	258.694	258.547	---	---	23
24	---	---	---	258.974	259.574	259.269	259.104	258.792	258.663	258.567	---	---	24
25	---	---	---	259.009	259.567	259.257	259.103	258.781	258.678	258.576	---	---	25
26	---	---	---	259.044	259.562	259.251	259.106	258.794	258.611	258.510	---	---	26
27	---	---	---	259.075	259.567	259.246	259.098	258.788	258.629	258.491	---	---	27
28	---	---	---	259.117	259.555	259.237	259.024	258.793	258.639	258.578	---	---	28
29	---		---	259.156	259.549	259.242	259.025	258.787	258.676	258.530	---	---	29
30	---		---	259.178	259.544	259.243	259.040	258.790	258.660	258.547	---	---	30
31	---		---		259.529		259.031	258.711		258.537A		---	31
MEAN	---	---	---	---	259.437	259.366	259.156	258.872	258.694	258.566	---	---	MEAN
MAX	---	---	---	---	259.574	259.515	259.257	259.040	258.783	258.644	---	---	MAX
MIN	---	---	---	---	259.204	259.237	259.024	258.711	258.611	258.491	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 259.574 ON MAY 24
MINIMUM DAILY, 258.491 ON OCT 27
MAXIMUM INSTANTANEOUS,
259.683 AT 18:44 CST ON MAY 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 32 00 N
LONG 100 52 00 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
10 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1962 ADJ.)

SWAN LAKE NEAR SWAN LAKE - STATION NO. 05OB018

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.512E	0.686	1.017	0.828	0.816	0.770	0.671	0.594	---	---	1
2	---	---	0.512E	0.765	1.012	0.820	0.814	0.772	0.672	0.592	---	---	2
3	---	---	0.513E	0.869	1.013	0.840	0.828	0.764	0.666	0.577	---	---	3
4	---	---	0.513E	0.966	1.008	0.849	0.818	0.762	0.660	0.558	---	---	4
5	---	---	0.513E	1.039	1.000	0.836	0.820	0.761	0.658	0.580	---	---	5
6	---	---	0.513A	1.084	0.973	0.839	0.825	0.757	0.655	0.572	---	---	6
7	---	---	0.513	1.112	0.944	0.840	0.863	0.754	0.650	0.575	---	---	7
8	---	---	0.513	1.136	0.929	0.847	0.862	0.748A	0.644	0.576	---	---	8
9	---	---	0.514	1.157	0.923	0.852	0.863	---	0.639	0.577	---	---	9
10	---	---	0.513	1.164	0.920	0.855	0.860	---	0.636	0.576	---	---	10
11	---	---	0.515	1.168	0.908	0.853	0.854	---	0.633	0.559	---	---	11
12	---	---	0.529	1.170	0.903	0.843	0.854	---	0.630	0.571	---	---	12
13	---	---	0.547	1.166	0.895	0.833	0.849	---	0.619	0.572	---	---	13
14	---	---	0.548	1.161	0.889	0.826	0.843	---	0.615	0.563	---	---	14
15	---	---	0.565	1.152	0.886	0.825	0.834	---	0.610	0.565	---	---	15
16	---	---	0.580	1.141	0.902	0.824	0.830	---	0.612	0.562	---	---	16
17	---	---	0.586	1.133	0.931	0.823	0.823	---	0.621	0.555	---	---	17
18	---	---	0.586	1.125	0.941	0.829	0.819	---	0.619	0.560	---	---	18
19	---	---	0.587	1.114	0.938	0.835	0.812	---	0.621	0.562	---	---	19
20	---	---	0.588	1.104	0.932	0.832	0.808	---	0.618	0.551	---	---	20
21	---	---	0.589	1.093	0.920	0.834	0.806	---	0.610	0.555	---	---	21
22	---	---	0.592	1.095	0.913	0.835	0.803	---	0.606	0.552	---	---	22
23	---	---	0.592	1.093	0.909	0.837	0.801	---	0.610	0.546	---	---	23
24	---	---	0.591	1.081	0.900	0.836	0.800	---	0.604	0.555	---	---	24
25	---	---	0.590	1.076	0.892	0.833	0.798	---	0.608	0.555	---	---	25
26	---	---	0.590	1.052	0.883	0.833	0.795	---	0.603	0.540	---	---	26
27	---	---	0.590	1.029	0.874	0.828	0.790	---	0.600	0.544	---	---	27
28	---	---	0.589	1.049	0.865	0.827	0.780	---	0.598	0.557	---	---	28
29	---		0.590	1.044	0.857	0.823	0.775	---	0.597	0.554A	---	---	29
30	---		0.596	1.021	0.846	0.821	0.771	0.692A	0.592	0.554E	---	---	30
31	---		0.622		0.835		0.769	0.670		0.553E		---	31
MEAN	---	---	0.558	1.068	0.921	0.835	0.819	---	0.626	0.563	---	---	MEAN
MAX	---	---	0.622	1.170	1.017	0.855	0.863	---	0.672	0.594	---	---	MAX
MIN	---	---	0.512	0.686	0.835	0.820	0.769	---	0.592	0.540	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 1.170 ON APR 12
MINIMUM DAILY, 0.512E ON MAR 01
MAXIMUM INSTANTANEOUS,
1.171 AT 14:02 CST ON APR 12

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 21 20 N
LONG 098 54 00 W

A - MANUAL GAUGE

E - ESTIMATED

DRAINAGE AREA,
4 890 km²

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.597B	0.536B	0.495B	2.90B	36.8	7.92	9.15	4.13	0.897	0.193	0.715	0.276B	1
2	0.590B	0.536B	0.495B	12.5 B	30.1	7.51	7.58	3.58	0.853	0.182	0.693	0.261B	2
3	0.584B	0.536B	0.495B	31.8 B	25.5	6.49	8.00	2.89	0.841	0.180	0.687	0.245B	3
4	0.584B	0.536B	0.495B	60.1 B	23.3	5.85	7.98	2.45	0.763	0.174	0.694	0.230B	4
5	0.584B	0.530B	0.490B	80.6 B	22.3	5.32	7.15	2.29	0.656	0.179	0.675B	0.229B	5
6	0.584B	0.530B	0.490B	67.7 B	21.5	4.74	7.08	2.19	0.576	0.193	0.660B	0.227B	6
7	0.584B	0.530B	0.490B	55.4 B	21.2	4.66	8.48	1.86	0.536	0.215	0.644B	0.226B	7
8	0.578B	0.525B	0.490B	41.7 B	22.1	4.37	9.30	1.61	0.492	0.213	0.629B	0.225B	8
9	0.578B	0.525B	0.530B	28.6 B	21.7	4.18	9.33	1.42	0.443	0.218	0.613B	0.224B	9
10	0.578B	0.525B	0.560B	20.8 B	21.9	5.37	9.04	1.27	0.383	0.221	0.598B	0.222B	10
11	0.572B	0.525B	0.590B	18.4 B	21.6	5.78	8.89	1.19	0.344	0.217	0.583B	0.221B	11
12	0.572B	0.520B	0.597B	16.1 B	20.9	5.89	8.68	1.13	0.328	0.299	0.567B	0.220B	12
13	0.572B	0.520B	0.604B	14.3 B	20.3	5.93	8.05	1.01	0.315	0.386	0.552B	0.218B	13
14	0.572B	0.520B	0.611B	13.9 B	18.4	6.05	7.18	0.858	0.302	0.450	0.537B	0.217B	14
15	0.566B	0.515B	0.618B	20.8 B	16.6	5.83	6.35	0.772	0.293	0.444	0.521B	0.216B	15
16	0.566B	0.515B	0.632B	31.4 B	16.7	5.35	5.64	0.706	0.283	0.442	0.506B	0.214B	16
17	0.566B	0.515B	0.639B	43.1 B	23.3	4.82	5.28	0.627	0.266	0.478	0.491B	0.213B	17
18	0.560B	0.515B	0.646B	43.1 B	24.4	4.49	4.53	0.556	0.245	0.471	0.475B	0.212B	18
19	0.560B	0.510B	0.653B	36.5 B	22.5	4.49	3.95	0.496	0.243	0.519	0.460B	0.211B	19
20	0.560B	0.510B	0.660B	35.1	22.2	4.03	3.57	0.452	0.278	0.839	0.445B	0.209B	20
21	0.560B	0.510B	0.667B	37.0	20.1	3.72	3.35	0.414	0.283	0.724	0.429B	0.208B	21
22	0.554B	0.505B	0.675B	38.3	18.7	3.48	3.07	0.488	0.264	0.660	0.414B	0.207B	22
23	0.554B	0.505B	0.682B	39.5	17.7	3.18	2.74	0.669	0.258	0.670	0.399B	0.205B	23
24	0.554B	0.505B	0.690B	41.2	17.6	2.94	2.58	0.663	0.229	0.674	0.383B	0.204B	24
25	0.548B	0.505B	0.697B	41.7	16.4	2.79	2.39	0.929	0.226	0.664	0.368B	0.203B	25
26	0.548B	0.500B	0.712B	42.2	15.2	6.30	2.18	0.897	0.207	0.656	0.353B	0.202B	26
27	0.548B	0.500B	0.720B	42.6	14.1	4.54	2.06	0.817	0.193	0.624	0.337B	0.200B	27
28	0.548B	0.500B	0.727B	43.4	12.2	7.42	1.99	0.781	0.196	0.616	0.322B	0.199B	28
29	0.542B		0.735B	42.7	11.0	15.2	1.86	0.706	0.193	0.732	0.307B	0.198B	29
30	0.542B		1.12 B	40.3	9.94	12.4	1.95	0.693	0.193	0.798	0.291B	0.196B	30
31	0.542B		1.48 B		8.76		2.04	0.923		0.757		0.195B	31
TOTAL	17.547	14.504	20.185	1 084.30	614.60	171.04	171.42	39.467	11.579	14.088	15.348	6.733	TOTAL
MEAN	0.566	0.518	0.651	36.1	19.8	5.70	5.53	1.27	0.386	0.455	0.512	0.217	MEAN
MAX	0.597	0.536	1.48	80.6	36.8	15.2	9.33	4.13	0.897	0.839	0.715	0.276	MAX
MIN	0.542	0.500	0.490	2.90	8.76	2.79	1.86	0.414	0.193	0.174	0.291	0.195	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.97
MAXIMUM DAILY, 80.6B ON APR 05
MINIMUM DAILY, 0.174 ON OCT 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 11 47 N
LONG 101 03 37 W

DRAINAGE AREA, 4 230 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 520	JUL	14 800
FEB	1 250	AUG	3 410
MAR	1 740	SEP	1 000
APR	93 700	OCT	1 220
MAY	53 100	NOV	1 330
JUN	14 800	DEC	582

TOTAL DISCHARGE, 188 000 dam³

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

AY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
	0.664B	0.610B	0.527B	0.464B	1.60B	10.8	4.68	0.091	---	---	0.443	1.14	1
	0.664B	0.604B	0.525B	0.462B	1.60B	10.8	4.90	0.091	---	---	0.481	1.07	2
	0.664B	0.602B	0.522B	0.462B	1.60B	10.7	4.18	0.096	---	---	0.589	1.07	3
	0.664B	0.600B	0.519B	0.462B	1.62B	10.3	3.61	0.099	---	---	0.633	1.10	4
	0.664B	0.600B	0.518B	0.462B	1.65B	9.87	3.12	0.103	---	---	0.635	1.29	5
	0.664B	0.598B	0.516B	0.462B	1.75B	9.52	2.58	0.101	---	---	0.679	1.19	6
	0.664B	0.592B	0.515B	0.462B	2.63B	9.20	2.22	0.093	---	---	0.700	1.12 B	7
	0.664B	0.590B	0.515B	0.462B	3.83B	8.80	2.01	0.102	---	---	0.710	1.10 B	8
	0.664B	0.584B	0.513B	0.466B	4.20B	8.46	2.03	0.102	---	---	0.767	1.07 B	9
	0.664B	0.582B	0.512B	0.468B	4.27B	7.99	2.00	0.090	---	---	0.807	1.05 B	10
	0.664B	0.580B	0.507B	0.472B	4.80B	7.92	1.82	0.076	---	---	0.785	1.02 B	11
	0.664B	0.580B	0.506B	0.476B	6.20B	9.17	1.62	0.067	---	---	0.719	0.999B	12
	0.664B	0.577B	0.503B	0.478B	7.78E	9.49	1.46	0.063	---	---	0.718	0.987B	13
	0.664B	0.572B	0.501B	0.480B	8.42E	9.55	1.31	0.055	---	---	0.766	0.966B	14
	0.664B	0.567B	0.501B	0.482B	9.07E	9.05	1.15	0.046	---	---	0.780	0.945B	15
	0.664B	0.562B	0.500B	0.484B	9.82	8.66	1.09	0.038	---	---	0.733	0.930B	16
	0.664B	0.560B	0.498B	0.492B	10.9	7.92	1.07	0.032	---	---	0.679	0.915B	17
	0.664B	0.557B	0.494B	0.498B	11.4	7.29	0.930	0.029	---	---	0.725	0.900B	18
	0.664B	0.555B	0.494B	0.504B	11.7	7.17	0.829	0.025	---	---	0.732	0.886B	19
	0.664B	0.555B	0.488B	0.507B	12.6	7.29	0.727	0.021A	---	---	0.736	0.880B	20
	0.664B	0.552B	0.484B	0.522B	14.1	7.60	0.656	---	---	---	0.751	0.866B	21
	0.664B	0.550B	0.482B	0.537B	14.6	7.44	0.593	---	---	---	0.942	0.856B	22
	0.664B	0.545B	0.480B	0.567B	14.4	6.91	0.502	---	---	---	1.07	0.835B	23
	0.664B	0.537B	0.480B	0.604B	14.6	6.38	0.385	---	---	0.382A	1.18	0.821B	24
	0.664B	0.535B	0.480B	0.880B	14.4	5.73	0.303	---	---	0.375	1.21	0.807B	25
	0.635B	0.532B	0.478B	0.954B	14.5	5.23	0.240	---	---	0.386	1.21	0.790B	26
	0.629B	0.530B	0.476B	1.58 B	13.8	4.79	0.172	---	---	0.404	0.964	0.772B	27
	0.623B	0.530B	0.476B	1.63 B	12.9	4.27	0.129	---	---	0.413	0.893	0.762B	28
	0.620B		0.472B	1.63 B	12.5	3.91	0.133	---	---	0.418	0.939	0.748B	29
	0.618B		0.470B	1.60 B	12.0	4.03	0.112	---	---	0.445	1.04	0.730B	30
	0.616B		0.464B		11.3		0.099	---	---	0.449		0.723B	31
AL	20.341	15.938	15.416	20.009	266.54	236.24	46.660	---	---	---	24.016	29.338	TOTAL
N	0.656	0.569	0.497	0.667	8.60	7.87	1.51	---	---	---	0.801	0.946	MEAN
	0.664	0.610	0.527	1.63	14.6	10.8	4.90	---	---	---	1.21	1.29	MAX
	0.616	0.530	0.464	0.462	1.60	3.91	0.099	---	---	---	0.443	0.723	MIN

CHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 14.6 ON MAY 22

MAXIMUM INSTANTANEOUS,
15.0 AT 14:30 CST ON MAY 24

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 29 20 N
LONG 098 11 10 W
DRAINAGE AREA, 883 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 760	JUL	4 030
FEB	1 380	AUG	---
MAR	1 330	SEP	---
APR	1 730	OCT	---
MAY	23 000	NOV	2 070
JUN	20 400	DEC	2 530

TEAKO CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF067

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

Y	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
	0	0	0	0.010E	0.009	0.001E	0	0	0	0	0	0	1
	0	0	0	0.003A	0.010	0.003E	0	0	0	0	0	0	2
	0	0	0	0.002B	0.009	0.006E	0.001	0	0	0	0	0	3
	0	0	0	0.002B	0.004	0.010A	0.001	0	0	0	0	0	4
	0	0	0	0.001B	0.003	0.011E	0.001	0	0	0	0	0	5
	0	0	0	0 B	0.003	0.012E	0	0	0	0	0	0	6
	0	0	0	0 B	0.002	0.014E	0.001	0	0	0	0	0	7
	0	0	0	0 B	0.002	0.015A	0.001	0	0	0	0	0	8
	0	0	0	0 B	0.002A	0.019E	0.001	0	0	0	0	0	9
	0	0	0	0 B	0.001A	0.023E	0.001	0	0	0	0	0	10
	0	0	0	0	0.001E	0.028A	0.001	0	0	0	0	0	11
	0	0	0	0	0.001E	0.011	0	0	0	0	0	0	12
	0	0	0	0	0.001E	0.005	0	0	0	0	0	0	13
	0	0	0	0	0.001A	0.003	0	0	0	0	0	0	14
	0	0	0	0	0.001E	0.008	0.001	0	0	0	0	0	15
	0	0	0.029B	0	0.001A	0.006	0.001	0	0	0	0	0	16
	0	0	0.015B	0.001	0.003E	0.005	0	0	0	0	0	0	17
	0	0	0.010B	0.002	0.005A	0.026	0	0	0	0	0	0	18
	0	0	0.006B	0.003	0.004E	0.031	0	0	0	0	0	0	19
	0	0	0.004B	0.006	0.003E	0.129	0.001	0	0	0	0	0	20
	0	0	0.003B	0.007	0.003E	0.027	0	0	0	0	0	0	21
	0	0	0.002B	0.009	0.002E	0.008	0	0	0	0	0	0	22
	0	0	0.001B	0.012	0.002A	0.004	0	0	0	0	0	0	23
	0	0	0.001B	0.018	0.002E	0.002	0	0	0	0	0	0	24
	0	0	0.001B	0.017	0.001E	0.001	0	0	0	0	0	0	25
	0	0	0 B	0.014	0.001E	0.001	0	0	0	0	0	0	26
	0	0	0 B	0.011	0.001E	0.001	0	0	0	0	0	0	27
	0	0	0 B	0.010	0.001A	0.001	0.001	0	0	0	0	0	28
	0		0.006B	0.015	0.001A	0	0	0	0	0	0	0	29
	0		0.021B	0.015	0.001E	0	0	0	0	0	0	0	30
	0		0.022B		0 A		0	0		0		0	31
L	0	0	0.121	0.158	0.081	0.411	0.014	0	0	0	0	0	TOTAL
	0	0	0.004	0.005	0.003	0.014	0.001	0	0	0	0	0	MEAN
	0	0	0.029	0.018	0.010	0.129	0.003	0	0	0	0	0	MAX
	0	0	0	0	0	0	0	0	0	0	0	0	MIN

HARGES IN CUBIC METRES PER SECOND

EAN, 0.002
AXIMUM DAILY, 0.129 ON JUN 20
INIMUM DAILY, 0 ON JAN 01

ATA CONTRIBUTED BY -
TOMIC ENERGY OF CANADA

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 14 40 N
LONG 095 52 54 W
DRAINAGE AREA, 0.52 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	1.21
FEB	0	AUG	0
MAR	10.5	SEP	0
APR	13.7	OCT	0
MAY	7.00	NOV	0
JUN	35.5	DEC	0

TOTAL DISCHARGE, 67.9 dam³

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.74 B	0.034E	0.300A	0.018E	0E	0	0	---	---	1
2	---	---	0 B	2.71 B	0.040E	0.850E	0.020E	0E	0	0	---	---	2
3	---	---	0 B	1.68 B	0.076E	1.22 E	0.210E	0E	0	0	---	---	3
4	---	---	0 B	0.930B	0.088E	1.41 E	0.170E	0E	0	0	---	---	4
5	---	---	0 B	0.941B	0.068E	0.879A	0.480E	0E	0	0	---	---	5
6	---	---	0 B	0.328B	0.060E	0.062E	0.540E	0E	0	0	---	---	6
7	---	---	0 B	0.232B	0.054E	0.205E	0.620E	0E	0	0	---	---	7
8	---	---	0 B	0.179B	0.050E	0.095E	0.552E	0E	0	0	---	---	8
9	---	---	0 B	0.300B	0.041A	0.052E	0.484E	0E	0	0	---	---	9
10	---	---	0.002B	0.176	0.040	0.035E	0.416E	0E	0	0	---	---	10
11	---	---	0.025B	0.119	0.037	0.412E	0.348E	0E	0	0	---	---	11
12	---	---	0.049B	0.083	0.031	0.550E	0.280E	0E	0	0	---	---	12
13	---	---	0.137B	0.134	0.025	0.678E	0.212E	0E	0	0	---	---	13
14	---	---	0.665B	0.310A	0.022	0.420E	0.144E	0E	0	0	---	---	14
15	---	---	0.840B	0.291A	0.021	0.140E	0.076E	0E	0	0	---	---	15
16	---	---	1.01 B	0.198	0.027	0.098E	0.004A	0E	0	0	---	---	16
17	---	---	0.959B	0.187A	0.027	0.255E	0.004E	0E	0	0	---	---	17
18	---	---	0.599B	0.147	0.177	0.405E	0.003E	0	0	0	---	---	18
19	---	---	0.202B	0.247	0.140	0.356E	0.003E	0	0	0	---	---	19
20	---	---	0.151B	0.351	0.095	0.490E	0.002E	0	0	0	---	---	20
21	---	---	0.143B	0.276A	0.070	0.390E	0.002E	0	0	0	---	---	21
22	---	---	0.123B	0.300E	0.069	0.160E	0.001E	0	0	0	---	---	22
23	---	---	0.066B	0.228E	0.043	0.090E	0.001E	0	0	0	---	---	23
24	---	---	0.034B	0.207E	0.026	0.060E	0.001E	0	0	0	---	---	24
25	---	---	0.013B	0.188E	0.034	0.025E	0 E	0	0	0	---	---	25
26	---	---	0 B	0.134A	0.026	0.042E	0 E	0	0	0	---	---	26
27	---	---	0 B	0.063	0.023	0.030E	0 E	0	0	0	---	---	27
28	---	---	0 B	0.063	0.018	0.190E	0 E	0	0	0	---	---	28
29	---	---	0 B	0.042A	0.014	0.198E	0 E	0	0	0	---	---	29
30	---		1.20 B	0.038E	0.010	0.025E	0 E	0	0	0	---	---	30
31	---		2.24 B		0.007		0 E	0		0		---	31
TOTAL	---	---	8.358	13.822	1.503	10.122	4.691	0	0	0	---	---	TOTAL
MEAN	---	---	0.270	0.461	0.049	0.337	0.151	0	0	0	---	---	MEAN
MAX	---	---	2.24	2.74	0.177	1.41	0.640	0	0	0	---	---	MAX
MIN	---	---	0	0.038	0.007	0.025	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.157
MAXIMUM DAILY, 2.74B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.17B AT 06:40 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 27 00 N
LONG 098 09 45 W
DRAINAGE AREA, 105 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	405
FEB	---	AUG	0
MAR	722	SEP	0
APR	1 190	OCT	0
MAY	130	NOV	---
JUN	875	DEC	---

TOTAL DISCHARGE, 3 320 dam³

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.82 B	0.025	0.007	0.002	0	0	0	---	---	1
2	---	---	0 B	1.38 B	0.023	1.72	0.002	0	0	0	---	---	2
3	---	---	0 B	0.692B	0.023	2.17	0.001	0	0	0	---	---	3
4	---	---	0 B	0.392B	0.022	1.01	0.001	0	0	0	---	---	4
5	---	---	0 B	0.250B	0.019	0.506	0.001	0	0	0	---	---	5
6	---	---	0 B	0.208B	0.015	0.273	0.001	0	0	0	---	---	6
7	---	---	0 B	0.193B	0.013	0.131	0.002	0	0	0	---	---	7
8	---	---	0 B	0.180B	0.011	0.107	0.002	0	0	0	---	---	8
9	---	---	0 B	0.169B	0.010	0.145	0.002	0	0	0	---	---	9
10	---	---	0 B	0.157B	0.009	0.154	0.002	0	0	0	---	---	10
11	---	---	0 B	0.151B	0.009	0.189	0.002	0	0	0	---	---	11
12	---	---	0 B	0.217B	0.007	2.28	0.002	0	0	0	---	---	12
13	---	---	0.005B	0.258B	0.008	1.72	0.001	0	0	0	---	---	13
14	---	---	0.197B	0.169B	0.008	0.859	0.001	0	0	0	---	---	14
15	---	---	0.530B	0.137B	0.007	0.523	0	0	0	0	---	---	15
16	---	---	0.505B	0.120B	0.011	0.284	0	0	0	0	---	---	16
17	---	---	0.355B	0.105	0.035	0.164	0	0	0	0	---	---	17
18	---	---	0.280B	0.144	0.041	0.093	0	0	0	0	---	---	18
19	---	---	0.250B	0.118	0.036	0.072	0	0	0	0	---	---	19
20	---	---	0.232B	0.092	0.040	0.105	0	0	0	0	---	---	20
21	---	---	0.219B	0.082	0.026	0.111	0	0	0	0	---	---	21
22	---	---	0.157B	0.071	0.019	0.141	0	0	0	0	---	---	22
23	---	---	0.101B	0.067	0.015	0.220	0	0	0	0	---	---	23
24	---	---	0.052B	0.056	0.014	0.241	0	0	0	0	---	---	24
25	---	---	0.028B	0.048	0.013	0.179	0	0	0	0	---	---	25
26	---	---	0.013B	0.037	0.012	0.103	0	0	0	0	---	---	26
27	---	---	0.006B	0.031	0.012	0.049	0	0	0	0	---	---	27
28	---	---	0.005B	0.029	0.010	0.014	0	0	0	0	---	---	28
29	---	---	0.005B	0.028	0.009	0.004	0	0	0	0	---	---	29
30	---		0.256B	0.027	0.008	0.003	0	0	0	0E	---	---	30
31	---		1.82 B		0.007		0	0		0E		---	31
TOTAL	---	---	5.016	7.428	0.517	13.583	0.022	0	0	0	---	---	TOTAL
MEAN	---	---	0.162	0.248	0.017	0.453	0.001	0	0	0	---	---	MEAN
MAX	---	---	1.82	1.82	0.041	2.28	0.002	0	0	0	---	---	MAX
MIN	---	---	0	0.027	0.007	0.003	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.108
MAXIMUM DAILY, 2.28 ON JUN 12
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.59 AT 18:17 CST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 50 N
LONG 096 58 50 W
DRAINAGE AREA, 219 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1.90
FEB	---	AUG	0
MAR	433	SEP	0
APR	642	OCT	0
MAY	44.7	NOV	---
JUN	1 170	DEC	---

TOTAL DISCHARGE, 2 290 dam³

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	17.7 B	5.41	2.71	0.769	0.190	0.114	0.139	---	---	1
2	---	---	0 B	18.8 B	5.37	3.00	0.706	0.188	0.108	0.118	---	---	2
3	---	---	0 B	18.4 B	5.79	2.89	0.812	0.165	0.119	0.107	---	---	3
4	---	---	0 B	21.0 B	7.09	2.39	0.943	0.153	0.115	0.105	---	---	4
5	---	---	0 B	10.9 B	8.25	2.49	0.964	0.141	0.107	0.101	---	---	5
6	---	---	0 B	10.4 B	8.45	2.59	1.11	0.123	0.088	0.142	---	---	6
7	---	---	0 B	9.10B	8.24	2.54	2.46	0.102	0.078	0.193	---	---	7
8	---	---	0 B	7.34B	7.87	12.0	2.59	0.079	0.078	0.184	---	---	8
9	---	---	0.001B	4.42B	7.20	16.0	2.27	0.066	0.072	0.177	---	---	9
10	---	---	0.005B	3.07B	6.37	9.90	1.71	0.073	0.066	0.191	---	---	10
11	---	---	0.015B	1.89B	6.14	7.31	1.39	0.104	0.068	0.186	---	---	11
12	---	---	0.032B	2.20B	5.85	6.29	1.05	0.157	0.061	0.127	---	---	12
13	---	---	0.071B	2.80B	4.87	4.89	0.838	0.185	0.057	0.163	---	---	13
14	---	---	0.154B	2.80B	4.09	4.09	0.698	0.180	0.061	0.154	---	---	14
15	---	---	0.350B	3.43B	3.68	3.43	0.608	0.178	0.067	0.163	---	---	15
16	---	---	0.599B	3.71B	29.9	2.68	0.562	0.182	0.071	0.173	---	---	16
17	---	---	0.479B	3.83	67.5 E	2.31	0.634	0.170	0.070	0.152	---	---	17
18	---	---	0.444B	4.51	38.3	2.10	0.615	0.148	0.074	0.146	---	---	18
19	---	---	0.365B	7.66	23.4	1.85	0.533	0.130	0.085	0.192	---	---	19
20	---	---	0.350B	11.5	16.4	2.78	0.485	0.130	0.068	0.167	---	---	20
21	---	---	0.287B	13.4	12.0	2.81	0.468	0.115	0.119	0.169	---	---	21
22	---	---	0.237B	20.0	10.3	2.29	0.449	0.102	0.161	0.150	---	---	22
23	---	---	0.198B	24.4	8.72	1.92	0.413	0.188	0.153	0.144B	---	---	23
24	---	---	0.154B	27.1	7.11	1.60	0.386	0.273	0.132	0.147B	---	---	24
25	---	---	0.120B	28.5	5.88	1.31	0.335	0.313	0.096	0.159	---	---	25
26	---	---	0.093B	28.1	5.06	1.12	0.308	0.329	0.074	0.164	---	---	26
27	---	---	0.076B	13.6	4.48	0.971	0.344	0.273	0.077	0.182	---	---	27
28	---	---	0.056B	7.07	3.82	1.01	0.347	0.216	0.072	0.205	---	---	28
29	---	---	0.063B	7.17	3.17	0.941	0.286	0.206	0.097	0.209	---	---	29
30	---		0.101B	6.80	2.70	0.833	0.229	0.172	0.154	0.209	---	---	30
31	---		5.04 B		2.50		0.206	0.146		0.215		---	31
TOTAL	---	---	9.290	341.60	335.91	108.745	25.518	5.177	2.762	5.033	---	---	TOTAL
MEAN	---	---	0.300	11.4	10.8	3.62	0.823	0.167	0.092	0.162	---	---	MEAN
MAX	---	---	5.04	28.5	67.5	16.0	2.59	0.329	0.161	0.215	---	---	MAX
MIN	---	---	0	1.89	2.50	0.833	0.206	0.066	0.057	0.101	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.40
MAXIMUM DAILY, 67.5E ON MAY 17
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
79.7E AT 05:50 CST ON MAY 17

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 56 40 N
LONG 099 31 15 W
DRAINAGE AREA, 938 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	2 200
FEB	---	AUG	447
MAR	803	SEP	239
APR	29 500	OCT	435
MAY	29 000	NOV	---
JUN	9 400	DEC	---

TOTAL DISCHARGE, 72 000 dam³

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.234B	0.006	0	0	0	0	0	---	---	1
2	---	---	0 B	0.171B	0.007	0	0	0	0	0	---	---	2
3	---	---	0 B	0.137B	0.007	0	0.001	0	0	0	---	---	3
4	---	---	0 B	0.204B	0.007	0	0	0	0	0	---	---	4
5	---	---	0 B	0.098B	0.007	0	0	0	0	0	---	---	5
6	---	---	0 B	0.040B	0.006	0	0	0	0	0	---	---	6
7	---	---	0 B	0.027B	0.006	0	0.001	0	0	0	---	---	7
8	---	---	0 B	0.023B	0.006	0	0.001	0	0	0	---	---	8
9	---	---	0 B	0.023B	0.006	0	0.001	0	0	0	---	---	9
10	---	---	0 B	0.021B	0.006	0	0	0	0	0	---	---	10
11	---	---	0 B	0.013B	0.006	0	0	0	0	0	---	---	11
12	---	---	0.003B	0.010B	0.005	0	0	0	0	0	---	---	12
13	---	---	0.001B	0.011	0.005	0	0	0	0	0	---	---	13
14	---	---	0 B	0.012	0.005	0	0.001	0	0	0	---	---	14
15	---	---	0 B	0.010	0.002	0	0.001	0	0	0	---	---	15
16	---	---	0 B	0.006	0.005	0	0	0	0	0	---	---	16
17	---	---	0 B	0.005	0.022	0.002	0	0	0	0	---	---	17
18	---	---	0 B	0.005	0.014	0.019	0	0	0	0	---	---	18
19	---	---	0 B	0.003	0.007	0.011	0	0	0	0	---	---	19
20	---	---	0 B	0.004	0.005	0.005	0	0	0	0	---	---	20
21	---	---	0 B	0.007	0.004	0.001	0	0	0	0	---	---	21
22	---	---	0 B	0.008	0.004	0.001	0	0	0	0	---	---	22
23	---	---	0 B	0.007	0.002	0.001	0	0	0	0	---	---	23
24	---	---	0 B	0.007	0.001	0	0	0	0	0	---	---	24
25	---	---	0 B	0.011	0	0	0	0	0	0	---	---	25
26	---	---	0 B	0.008	0	0	0	0	0	0	---	---	26
27	---	---	0 B	0.008	0	0	0	0	0	0	---	---	27
28	---	---	0.010B	0.010	0	0	0	0	0	0	---	---	28
29	---	---	0.044B	0.008	0	0	0	0	0	0	---	---	29
30	---		0.214B	0.007	0	0	0	0	0	0	---	---	30
31	---		0.372B		0		0	0		0		---	31
TOTAL	---	---	0.644	1.138	0.151	0.040	0.006	0	0	0	---	---	TOTAL
MEAN	---	---	0.021	0.038	0.005	0.001	0	0	0	0	---	---	MEAN
MAX	---	---	0.372	0.234	0.022	0.019	0.001	0	0	0	---	---	MAX
MIN	---	---	0	0.003	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.008
MAXIMUM DAILY, 0.372B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.796B AT 21:22 CST ON MAR 30

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 59 N
LONG 100 23 57 W
DRAINAGE AREA, 4.9 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0.518
FEB	---	AUG	0
MAR	55.6	SEP	0
APR	98.3	OCT	0
MAY	13.0	NOV	---
JUN	3.46	DEC	---

TOTAL DISCHARGE, 171 dam³

VALLEY RIVER ABOVE GILBERT PLAINS DAM - STATION NO. 05LJ812

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	380.814E	380.546E	---	---	---	---	1
2	---	---	---	---	---	---	380.814	380.520E	---	---	---	---	2
3	---	---	---	---	---	381.044	380.811E	380.493	---	---	---	---	3
4	---	---	---	---	---	381.034E	380.807E	380.400E	---	---	---	---	4
5	---	380.990	---	380.520	---	381.024E	380.804	380.306E	---	---	---	---	5
6	---	---	---	---	---	381.014E	380.806E	380.213	---	---	---	---	6
7	---	---	---	---	380.436	381.004	380.808E	380.213	---	---	---	---	7
8	---	---	---	---	381.055	---	380.810E	380.223	---	---	380.943	---	8
9	---	---	---	---	381.050E	---	380.812E	379.853	---	---	---	---	9
10	---	---	---	---	381.045	---	380.814E	380.262	---	---	---	---	10
11	---	---	---	---	381.038E	---	380.816E	380.513E	---	---	---	---	11
12	---	---	---	---	381.030E	---	380.818E	380.763	---	---	---	---	12
13	---	---	---	---	381.022E	---	380.820E	380.783	---	---	---	---	13
14	---	---	---	---	381.015	---	380.822E	380.785	---	---	---	---	14
15	---	---	---	---	381.033E	---	380.824	380.783	---	---	---	---	15
16	---	---	---	---	381.050E	---	380.814E	380.783	---	---	---	---	16
17	---	---	---	---	381.068E	---	380.804	380.783	---	---	---	380.997	17
18	---	---	---	---	381.085	---	380.807E	380.783E	---	---	---	---	18
19	---	---	---	---	381.092E	---	380.810E	380.783	---	---	---	---	19
20	---	---	---	---	381.098E	---	380.813	380.783	---	---	---	---	20
21	---	---	---	---	381.105	---	380.810E	380.783E	---	---	---	---	21
22	---	---	---	---	381.125E	---	380.806E	380.783	---	---	---	---	22
23	---	---	---	---	381.145	---	380.803	380.783	---	---	---	---	23
24	---	---	---	---	381.150E	---	380.793E	---	---	---	---	---	24
25	---	---	---	---	381.155	380.814	380.783	---	---	---	---	---	25
26	---	---	---	---	---	380.814E	380.773	---	---	---	---	---	26
27	---	---	---	---	---	380.814E	380.733E	---	---	---	---	---	27
28	---	---	---	---	---	380.814E	380.693E	---	---	---	---	---	28
29	---		---	---	---	380.814	380.653E	---	---	---	---	---	29
30	---		---	---	---	380.814E	380.613E	---	---	---	---	---	30
31	---		---		---		380.573	---		---		---	31
MEAN	---	---	---	---	---	---	380.783	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	380.824	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	380.573	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 09 10 N
LONG 100 29 33 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1980
DRAINAGE AREA,
2 060 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.630B	1.86B	16.4	10.5	1.40	0.554	0.039	0.009	---	---	1
2	---	---	0.642B	2.58B	15.7	9.83	1.62	0.485	0.031	0.009	---	---	2
3	---	---	0.660B	9.03B	15.6	9.22	1.88	0.425	0.043	0.009	---	---	3
4	---	---	0.681B	16.6 B	15.1	9.06	1.94	0.345	0.053	0.008	---	---	4
5	---	---	0.695B	14.0 B	14.5	8.75	1.74	0.273	0.047	0.007	---	---	5
6	---	---	0.772B	12.7 B	13.7	8.23	1.63	0.216	0.043	0.005	---	---	6
7	---	---	0.917B	14.8 B	12.8	7.97	1.66	0.174	0.050	0.003	---	---	7
8	---	---	0.977B	16.8 B	12.2	7.79	1.85	0.127	0.059	0.197	---	---	8
9	---	---	0.993B	17.9 B	12.0	7.49	2.06	0.096	0.067	0.585	---	---	9
10	---	---	0.967B	18.0 B	11.5	7.39	2.47	0.047	0.041	0.624	---	---	10
11	---	---	0.948B	15.0 B	11.1	6.91	2.86	0.028	0.033	0.618	---	---	11
12	---	---	0.965B	15.0 B	10.6	6.35	2.66	0.011	0.021	0.590	---	---	12
13	---	---	1.05 B	19.9 B	9.98	5.89	2.40	0.042	0.010	0.683	---	---	13
14	---	---	0.994B	22.9 B	9.40	5.43	2.12	0.077	0.007	0.613	---	---	14
15	---	---	1.10 B	30.7 B	8.97	4.91	1.95	0.075	0.008	0.512	---	---	15
16	---	---	2.27 B	34.1 B	14.3	4.61	1.75	0.096	0.011	0.566	---	---	16
17	---	---	3.06 B	36.2 B	29.1 A	4.05	1.77	0.081	0.006	0.569	---	---	17
18	---	---	3.15 B	37.2	29.1 A	3.71	1.73	0.082	0.006	0.551	---	---	18
19	---	---	3.04 B	51.9	24.0	3.38	1.34	0.080	0.015	0.505	---	---	19
20	---	---	2.87 B	70.9	20.1	3.52	1.16	0.083	0.006	0.492	---	---	20
21	---	---	2.71 B	69.3	20.7	4.96	1.23	0.069	0.005	0.550	---	---	21
22	---	---	2.46 B	58.8	23.1	3.72	1.33	0.061	0.004	0.667	---	---	22
23	---	---	2.14 B	48.7	25.4	2.91	1.20	0.074	0.006	0.653	---	---	23
24	---	---	1.99 B	41.6	23.6	2.11	1.05	0.070	0.004	0.613	---	---	24
25	---	---	1.90 B	36.2	20.7	1.81	0.923	0.039	0.006	0.607	---	---	25
26	---	---	1.81 B	31.5 A	17.9	1.47	0.788	0.041	0.003	0.600	---	---	26
27	---	---	1.82 B	26.6 A	15.6	1.22	0.737	0.044	0.024	0.562	---	---	27
28	---	---	1.76 B	22.4	13.9	1.20	0.624	0.043	0.007	0.542	---	---	28
29	---	---	1.77 B	18.7	12.6	1.60	0.539	0.049	0.006	0.532	---	---	29
30	---		1.95 B	17.8	11.8	1.37	0.444	0.046	0.015	0.545	---	---	30
31	---		2.02 B		11.7		0.619	0.038		0.558A		---	31
TOTAL	---	---	49.711	829.47	503.15	157.36	47.474	3.971	0.676	13.584	---	---	TOTAL
MEAN	---	---	1.60	27.6	16.2	5.25	1.53	0.128	0.023	0.438	---	---	MEAN
MAX	---	---	3.15	70.9	29.1	10.5	2.86	0.554	0.067	0.683	---	---	MAX
MIN	---	---	0.630	1.86	8.97	1.20	0.444	0.011	0.003	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.55
MAXIMUM DAILY, 70.9 ON APR 20
MINIMUM DAILY, 0.003 ON SEP 26
MAXIMUM INSTANTANEOUS,
78.0 AT 18:10 CST ON APR 20

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 16 45 N
LONG 100 00 39 W
DRAINAGE AREA, 2 880 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	4 100
FEB	---	AUG	343
MAR	4 300	SEP	58.4
APR	71 700	OCT	1 170
MAY	43 500	NOV	---
JUN	13 600	DEC	---

TOTAL DISCHARGE, 139 000 dam³

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.453B	0.740B	7.97	7.07	1.15	0.387	0.253	0.442	---	---	1
2	---	---	0.454B	0.873B	8.00	6.59	1.14	0.324	0.141	0.435	---	---	2
3	---	---	0.447B	1.50 B	7.93	6.14	1.04	0.327	0.355	0.434	---	---	3
4	---	---	0.439B	4.30 B	7.84	5.70	1.02	0.327	0.556	0.435	---	---	4
5	---	---	0.432B	8.50 B	7.71	5.71	1.05	0.328	0.599	0.437	---	---	5
6	---	---	0.428B	9.92 B	7.55	5.65	1.28	0.306	0.480	0.453	---	---	6
7	---	---	0.418B	8.14 B	7.31	5.39	1.57	0.190	0.355	0.495	---	---	7
8	---	---	0.444B	5.95 B	6.96	5.29	1.83	0.126	0.480	0.475	---	---	8
9	---	---	0.433B	5.06 B	6.75	5.25	1.80	0.103	0.297	0.456	---	---	9
10	---	---	0.456B	3.48 B	6.52	4.94	1.53	0.120	0.173	0.619	---	---	10
11	---	---	0.523B	2.69 B	6.37	4.65	1.44	0.154	0.187	0.416	---	---	11
12	---	---	0.655B	3.00 B	6.22	4.35	1.60	0.147	0.250	0.382	---	---	12
13	---	---	0.802B	4.93 B	5.97	4.18	1.64	0.214	0.304	0.306	---	---	13
14	---	---	0.797B	6.56 B	5.63	4.08	1.56	0.238	0.256	0.309	---	---	14
15	---	---	0.801B	7.26 B	5.48	3.87	1.26	0.226	0.210	0.286	---	---	15
16	---	---	0.811B	7.21 B	6.27	3.58	1.01	0.244	0.129	0.406	---	---	16
17	---	---	0.766B	6.59 B	7.63	3.37	0.926	0.136	0.094	0.354	---	---	17
18	---	---	0.668B	10.0 B	7.77	3.13	1.21	0.136	0.103	0.352	---	---	18
19	---	---	0.658B	16.9 B	7.03	2.99	1.41	0.183	0.122	0.362	---	---	19
20	---	---	0.667B	26.0	7.06	2.99	1.14	0.186	0.116	0.383	---	---	20
21	---	---	0.653B	24.8	7.57	2.64	0.959	0.206	0.176	0.529	---	---	21
22	---	---	0.607B	22.3	8.16	1.70	0.913	0.183	0.247	0.601	---	---	22
23	---	---	0.555B	19.3	9.04	1.35	0.809	0.174	0.233	0.593	---	---	23
24	---	---	0.556B	16.1	9.16	1.04	0.862	0.227	0.254	0.520	---	---	24
25	---	---	0.547B	13.9	9.04	0.926	0.784	0.479	0.290	0.428	---	---	25
26	---	---	0.534B	12.4	8.80	1.02	0.600	0.392	0.291	0.358	---	---	26
27	---	---	0.528B	10.5	8.51	0.916	1.31	0.562	0.274	0.403	---	---	27
28	---	---	0.520B	9.45	8.16	1.10	0.691	0.573	0.297	0.372	---	---	28
29	---	---	0.555B	8.59	8.55	1.15	0.762	0.533	0.325	0.321	---	---	29
30	---		0.664B	8.15	8.14	1.21	0.887	0.457	0.475	0.306	---	---	30
31	---		0.745B		7.37		0.610	0.356		0.424A		---	31
TOTAL	---	---	18.036	283.093	232.47	107.972	35.793	8.344	8.322	13.092	---	---	TOTAL
MEAN	---	---	0.582	9.44	7.50	3.60	1.15	0.269	0.277	0.422	---	---	MEAN
MAX	---	---	0.811	26.0	9.16	7.07	1.83	0.573	0.599	0.619	---	---	MAX
MIN	---	---	0.428	0.740	5.48	0.916	0.600	0.103	0.094	0.286	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 2.89
MAXIMUM DAILY, 26.0 ON APR 20
MINIMUM DAILY, 0.094 ON SEP 17
MAXIMUM INSTANTANEOUS,
28.0 AT 18:15 CST ON APR 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 11 10 N
LONG 100 41 40 W

DRAINAGE AREA, 1 730 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 090
FEB	---	AUG	721
MAR	1 560	SEP	719
APR	24 500	OCT	1 130
MAY	20 100	NOV	---
JUN	9 330	DEC	---

TOTAL DISCHARGE, 61 200 dam³

VERMILION RESERVOIR NEAR DAUPHIN - STATION NO. 05LJ046

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	385.682	385.885	386.005	386.435	388.579	388.449	388.364	388.305	387.668	387.068	386.997	385.564	1
2	385.688	385.889	386.008	386.472	388.576	388.439	388.356	388.303	387.649	387.072	387.002	385.558	2
3	385.691	385.894	386.013	386.527	388.581	388.435	388.367	388.296	387.629	387.078	387.005	385.554	3
4	385.699	385.899	386.017	386.622	388.605	388.429	388.381	388.275	387.608	387.074	387.010	385.541	4
5	385.700	385.905	386.021	386.708	388.605	388.439	388.387	388.248	367.584	387.064	387.003	385.547	5
6	385.703	385.910	386.025	386.774	388.590	388.451	388.383	388.219	387.557	387.064	386.921	385.547	6
7	385.707	385.917	386.031	386.841	388.573	388.448	388.424	388.192	387.537	387.055	386.833	385.542	7
8	385.713	385.924	386.034	386.910	388.566	388.516	388.447	388.156	387.504	387.049	386.744	385.538	8
9	385.720	385.933	386.039	386.967	388.574	388.560	388.447	388.120	387.480	387.050	386.654	385.536	9
10	385.728	385.938	386.048	387.016	388.576	388.651	388.420	388.084	387.450	387.044	386.558	385.539	10
11	385.734	385.947	386.060	387.056	388.583	388.588	388.399	388.051	387.421	387.037	386.462	385.542	11
12	385.740	385.957	386.079	387.100	388.578	388.534	388.393	388.020	387.396	387.028	386.366	385.549	12
13	385.746	385.953	386.121	387.157	388.556	388.495	388.369	387.994	387.372	387.022	386.269	385.550	13
14	385.748	385.962	386.137	387.230	388.529	388.475	388.356	387.970	387.342	387.016	386.181	385.554	14
15	385.757	385.970	386.167	387.302	388.505	388.460	388.347	387.947	387.315	387.012	386.088	385.555	15
16	385.763	385.973	386.191	387.368	388.686	388.445	388.341	387.920	387.287	387.007	385.994	385.560	16
17	385.771	385.975	386.201	387.432	389.049	388.435	388.351	387.896	387.270	387.001	385.900	385.563	17
18	385.777	385.978	386.206	387.550	388.944	388.424	388.357	387.878	387.246	386.998	385.809	385.571	18
19	385.785	385.977	386.224	387.889	388.814	388.419	388.354	387.858	387.219	386.991	385.724	385.579	19
20	385.789	385.980	386.238	388.542	388.716	388.422	388.348	387.841	387.209	386.993	385.704	385.583	20
21	385.797	385.983	386.255	388.865	388.660	388.441	388.346	387.821	387.202	386.991	385.701	385.587	21
22	385.804	385.981	386.271	388.974	388.673	388.444	388.339	387.804	387.192	386.989	385.679	385.587	22
23	385.812	385.986	386.283	389.059	388.665	388.428	388.332	387.790	387.189	386.992	385.668	385.587	23
24	385.819	385.992	386.292	389.131	388.615	388.410	388.326	387.771	387.177	386.992	385.656	385.586	24
25	385.827	385.990	386.307	389.039	388.570	388.398	388.324	387.761	387.159	386.996	385.640	385.582	25
26	385.835	386.000	386.315	388.907	388.538	388.386	388.324	387.755	387.141	387.000	385.621	385.577	26
27	385.842	386.003	386.327	388.773	388.512	388.377	388.322	387.753	387.118	386.999	385.602	385.573	27
28	385.847	386.002	386.334	388.680	388.491	388.375	388.322	387.745	387.101	387.002	385.583	385.571	28
29	385.852		386.348	388.644	388.472	388.373	388.320	387.731	387.089	386.995	385.572	385.567	29
30	385.874		386.367	388.621	388.462	388.370	388.314	387.715	387.079	387.000	385.570	385.561	30
31	385.879		386.395		388.452		388.310	387.698		386.999		385.555	31
MEAN	385.769	385.954	386.173	387.686	388.610	388.454	388.360	387.965	387.340	387.022	386.184	385.561	MEAN
MAX	385.879	386.003	386.395	389.131	389.049	388.660	388.447	388.305	387.668	387.078	387.010	385.587	MAX
MIN	385.682	385.885	386.005	386.435	388.452	388.370	388.310	387.698	387.079	386.989	385.570	385.536	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 387.096
MAXIMUM DAILY, 389.131 ON APR 24
MINIMUM DAILY, 385.536 ON DEC 09
MAXIMUM INSTANTANEOUS,
389.160 AT 09:43 CST ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 02 45 N
LONG 100 10 05 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1979

DRAINAGE AREA,
371 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.015B	23.8 B	6.71	2.73	0.824	0.184	0.166	0.095	---	---	1
2	---	---	0.010B	17.1 B	6.00	2.67	0.751	0.180	0.169	0.075	---	---	2
3	---	---	0.010B	17.0 B	6.03	2.38	0.745	0.219	0.204	0.086	---	---	3
4	---	---	0.010B	23.0 B	7.30	2.16	0.796	0.174	0.189	0.108	---	---	4
5	---	---	0.014B	9.87B	7.87	2.06	1.02	0.208	0.184	0.116	---	---	5
6	---	---	0.030B	5.40B	7.41	2.24	1.13	0.284	0.166	0.116	---	---	6
7	---	---	0.060B	4.16B	6.57	2.36	1.29	0.286	0.158	0.122	---	---	7
8	---	---	0.093B	4.55B	6.17	2.48	2.13	0.267	0.141	0.075	---	---	8
9	---	---	0.220B	3.09B	6.36	6.48	2.34	0.260	0.143	0.102	---	---	9
10	---	---	0.384B	2.83B	6.33	8.87	2.10	0.277	0.148	0.130	---	---	10
11	---	---	0.452B	2.30B	6.44	7.12	1.65	0.291	0.142	0.137	---	---	11
12	---	---	0.585B	2.15B	6.60	4.93	1.32	0.301	0.145	0.129	---	---	12
13	---	---	1.13 B	1.93B	5.86	3.68	1.08	0.290	0.141	0.131	---	---	13
14	---	---	3.18 B	1.91B	5.09	2.97	0.838	0.303	0.140	0.139	---	---	14
15	---	---	1.27 B	2.19B	4.41	2.63	0.648	0.311	0.150	0.128	---	---	15
16	---	---	1.56 B	2.30B	7.73	2.31	0.572	0.296	0.146	0.132	---	---	16
17	---	---	1.33 B	2.54B	30.7	2.02	0.703	0.287	0.134	0.122	---	---	17
18	---	---	1.06 B	3.25	29.5	1.92	0.607	0.299	0.120	0.108	---	---	18
19	---	---	1.04 B	4.82	20.9	1.65	0.643	0.251	0.110	0.090	---	---	19
20	---	---	0.972B	4.59	14.8	2.59	0.663	0.202	0.142	0.098	---	---	20
21	---	---	0.906B	15.9	11.0	3.06	0.586	0.199	0.135	0.108	---	---	21
22	---	---	0.928B	23.6	10.4	2.79	0.538	0.198	0.147	0.141	---	---	22
23	---	---	0.954B	28.2	11.2	2.50	0.414	0.214	0.135	0.100	---	---	23
24	---	---	0.886B	32.9	9.07	2.07	0.395	0.236	0.114	0.097	---	---	24
25	---	---	0.481B	31.9	7.08	1.69	0.349	0.266	0.112	0.116	---	---	25
26	---	---	0.358B	25.1	5.63	1.39	0.307	0.242	0.103	0.127	---	---	26
27	---	---	0.290B	17.3	4.62	1.17	0.288	0.257	0.114	0.098	---	---	27
28	---	---	0.204B	12.0	3.85	1.14	0.277	0.209	0.107	0.114	---	---	28
29	---	---	0.300B	8.73	3.35	1.08	0.234	0.198	0.085	0.122	---	---	29
30	---		0.388B	8.29	2.98	0.946	0.212	0.193	0.105	0.111	---	---	30
31	---		4.59 B		2.78		0.198	0.181		0.106A		---	31
TOTAL	---	---	23.710	342.70	270.74	84.286	25.648	7.563	4.195	3.479	---	---	TOTAL
MEAN	---	---	0.765	11.4	8.73	2.81	0.827	0.244	0.140	0.112	---	---	MEAN
MAX	---	---	4.59	32.9	30.7	8.87	2.34	0.311	0.204	0.141	---	---	MAX
MIN	---	---	0.010	1.91	2.78	0.946	0.198	0.174	0.085	0.075	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.11
MAXIMUM DAILY, 32.9 ON APR 24
MINIMUM DAILY, 0.010B ON MAR 02
MAXIMUM INSTANTANEOUS,
35.9 AT 17:17 CST ON MAY 17

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 11 00 N
LONG 100 00 45 W
DRAINAGE AREA, 674 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1979

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	2 220
FEB	---	AUG	653
MAR	2 050	SEP	362
APR	29 600	OCT	301
MAY	23 400	NOV	---
JUN	7 280	DEC	---

TOTAL DISCHARGE, 65 900 dam³

WANIPIGOW LAKE NEAR BISSETT (CAMPGROUND) - STATION NO. 05RA802

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	230.748	230.750	230.585	230.375	---	---	---	1
2	---	---	---	---	---	230.755	230.740	230.580	---	---	---	---	2
3	---	---	---	---	---	230.753	230.755	230.575	---	---	---	---	3
4	---	---	---	---	---	230.793	230.755	230.560	---	---	---	---	4
5	---	---	230.330	---	---	230.805	230.755	230.550	---	---	230.322	---	5
6	---	---	---	---	---	230.860	230.755	230.535	---	---	---	---	6
7	---	---	---	---	---	230.875	230.765	230.520	---	---	---	---	7
8	---	---	---	---	---	230.895	230.775	230.500	---	---	---	---	8
9	---	---	---	---	---	230.915	230.780	230.495	---	---	---	---	9
10	---	---	---	---	---	230.915	230.800	230.480	---	---	---	---	10
11	---	---	---	---	---	230.930	230.805	230.475	---	---	---	---	11
12	---	---	---	---	---	230.938	230.800	230.465	---	---	---	---	12
13	---	---	---	---	---	230.945	230.795	230.450	---	---	---	---	13
14	---	---	---	---	---	230.945	230.790	230.445	---	---	---	---	14
15	---	---	---	---	---	230.935	230.775	230.445	---	---	---	---	15
16	---	---	---	---	---	230.930	230.765	230.440	---	---	---	---	16
17	---	---	---	---	---	230.915	230.760	230.430	---	---	---	---	17
18	---	---	---	---	---	230.890	230.755	230.425	---	---	---	---	18
19	---	---	---	---	---	230.880	230.745	230.410	---	---	---	---	19
20	---	---	---	---	---	230.860	230.730	230.405	---	---	---	---	20
21	---	---	---	---	---	230.865	230.725	230.395	---	---	---	---	21
22	---	---	---	---	---	230.870	230.715	230.390	---	---	---	---	22
23	---	---	---	---	---	230.870	230.705	230.380	---	---	---	---	23
24	---	---	---	---	---	230.860	230.700	230.375	---	---	---	---	24
25	---	---	---	---	---	230.845	230.685	230.385	---	---	---	---	25
26	---	---	---	---	---	230.830	230.675	230.380	---	---	---	---	26
27	---	---	---	---	---	230.815	230.655	230.390	---	---	---	---	27
28	---	---	---	---	---	230.800	230.645	230.385	---	---	---	---	28
29	---		---	---	---	230.785	230.630	230.385	---	---	---	---	29
30	---		---	---	230.785	230.770	230.615	230.385	---	---	---	---	30
31	---		---		230.765		230.600	230.375		---		---	31
MEAN	---	---	---	---	---	230.860	230.732	230.451	---	---	---	---	MEAN
MAX	---	---	---	---	---	230.945	230.805	230.585	---	---	---	---	MAX
MIN	---	---	---	---	---	230.748	230.600	230.375	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 230.945 ON JUN 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 05 28 N
LONG 095 59 09 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED

REGULATED SINCE 1917

DRAINAGE AREA,
1 430 km²

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.305B	0	0	0	0	0	0	---	---	1
2	---	---	0 B	0.249B	0	0	0	0	0	0	---	---	2
3	---	---	0 B	0.098B	0	0	0.180	0	0	0	---	---	3
4	---	---	0 B	0.046B	0	0	0.107	0	0	0	---	---	4
5	---	---	0 B	0.047B	0	0	0.006	0	0	0	---	---	5
6	---	---	0 B	0.043B	0	0	0.056	0	0	0	---	---	6
7	---	---	0 B	0.027	0	0	0.108	0	0	0	---	---	7
8	---	---	0 B	0.016	0	0	0.319	0	0	0	---	---	8
9	---	---	0.003B	0.007	0	0	0.894	0	0	0	---	---	9
10	---	---	0.005B	0.005	0	0	0.535	0	0	0	---	---	10
11	---	---	0.003B	0.004A	0	0	0.243	0	0	0	---	---	11
12	---	---	0.012B	0.004A	0	0	0.069	0	0	0	---	---	12
13	---	---	0.019B	0.004	0	0	0.022	0	0	0	---	---	13
14	---	---	0.009B	0.002	0	0	0.006	0	0	0	---	---	14
15	---	---	0.004B	0.001	0	0	0.003	0	0	0	---	---	15
16	---	---	0.005B	0	0	0	0.001	0	0	0	---	---	16
17	---	---	0.009B	0	0	0	0.001	0	0	0	---	---	17
18	---	---	0.010B	0	0	0	0	0	0	0	---	---	18
19	---	---	0.009B	0	0	0	0	0	0	0	---	---	19
20	---	---	0.006B	0	0	0.152	0	0	0	0	---	---	20
21	---	---	0.004B	0	0	0.152	0	0	0	0	---	---	21
22	---	---	0.003B	0	0	0.046	0	0	0	0	---	---	22
23	---	---	0.001B	0	0	0.014	0	0	0	0	---	---	23
24	---	---	0 B	0	0	0.004A	0	0	0	0	---	---	24
25	---	---	0 B	0	0	0.002E	0	0	0	0	---	---	25
26	---	---	0 B	0	0	0	0	0	0	0	---	---	26
27	---	---	0 B	0	0	0	0	0	0	0	---	---	27
28	---	---	0 B	0	0	0	0	0	0	0	---	---	28
29	---	---	0 B	0	0	0	0	0	0	0	---	---	29
30	---		0.003B	0	0	0	0	0	0	0	---	---	30
31	---		0.042B		0		0	0		0		---	31
TOTAL	---	---	0.147	0.858	0	0.370	2.550	0	0	0	---	---	TOTAL
MEAN	---	---	0.005	0.029	0	0.012	0.082	0	0	0	---	---	MEAN
MAX	---	---	0.042	0.305	0	0.152	0.894	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.016
MAXIMUM DAILY, 0.894 ON JUL 09
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.06 AT 23:46 CST ON JUL 08

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 40 N
LONG 100 42 50 W
DRAINAGE AREA, 110 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	220
FEB	---	AUG	0
MAR	12.7	SEP	0
APR	74.1	OCT	0
MAY	0	NOV	---
JUN	32.0	DEC	---

TOTAL DISCHARGE, 339 dam³

WATERHEN LAKE AT SKOWNAN - STATION NO. 05LH008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	251.633E	---	---	---	251.768	252.227	252.220	252.116	252.035	251.908	251.885	251.843	1
2	251.634E	---	---	---	251.769	252.292	252.253	252.121	251.993	251.890	251.852	251.840	2
3	251.634E	---	---	---	251.770	252.187	252.249	252.141	252.024	251.895	251.870	251.839	3
4	251.636E	---	---	251.554A	251.776	252.141	252.254	252.113	252.006	251.922	251.830	251.835	4
5	251.638E	---	251.601A	---	251.784	252.200	252.227	252.105	251.995	251.913	251.845	251.831	5
6	251.638E	251.609A	---	---	251.797	252.196	252.221	252.095	252.020	251.911	251.837	251.829	6
7	251.637E	---	---	---	251.812	252.220	252.241	252.080	251.960	251.896	251.833	251.824	7
8	251.639A	---	---	---	251.845	252.221	252.235	252.112	252.021	251.890	251.834	251.821	8
9	---	---	---	---	251.865	252.213	252.239	252.098	251.996	251.871	251.831	251.818	9
10	---	---	---	---	251.887	252.206	252.221	252.068	251.969	251.864	251.832	251.813	10
11	---	---	---	---	251.903	252.203	252.220	252.056	252.007	251.885	251.835	251.812	11
12	---	---	---	251.607A	251.922	252.213	252.196	252.054	251.970	251.868	251.838	251.817	12
13	---	---	---	251.610	251.939	252.267	252.166	252.069	251.993	251.886	251.838	251.812	13
14	---	---	---	251.615	251.957	252.219	252.209	252.087	251.960	251.893	251.836	251.809	14
15	---	---	---	251.620	251.975	252.207	252.199	252.062	251.986	251.884	251.833	251.804	15
16	---	---	---	251.617	252.019	252.221	252.191	252.085	251.944	251.905	251.827	251.800	16
17	---	---	---	251.620	252.031	252.242	252.207	252.078	251.924	251.889	251.826	251.795	17
18	---	---	---	251.630	252.023	252.226	252.194	252.060	251.957	251.859	251.826	251.793	18
19	---	---	---	251.649	252.037	252.217	252.194	252.041	251.955	251.861	251.826	251.789	19
20	---	---	---	251.672	252.065	252.257	252.201	252.035	251.973	251.885	251.825	251.783	20
21	---	---	---	251.688	252.087	252.256	252.185	252.028	252.014	251.873	251.828	251.779	21
22	---	---	---	251.692A	252.119	252.251	252.175	252.022	251.952	251.873	251.830	251.775	22
23	---	---	---	251.699E	252.129	252.220	252.167	252.034	251.919	251.873	251.837	251.770	23
24	---	---	---	251.712E	252.138	252.217	252.169	252.053	251.939	251.861	251.842	251.765	24
25	---	---	---	251.714E	252.151	252.240	252.186	252.079	251.926	251.843	251.848	251.760	25
26	---	---	---	251.723A	252.161	252.226	252.149	252.046	251.946	251.884	251.852	251.754	26
27	---	---	---	251.731	252.182	252.225	252.129	252.035	251.929	251.889	251.855	251.752	27
28	---	---	---	251.744	252.179	252.249	252.168	252.034	251.924	251.816	251.852	251.749	28
29	---		---	251.767	252.164	252.242	252.167	252.034	251.889	251.849	251.850	251.743	29
30	---		---	251.769	252.173	252.237	252.128	252.027	251.889	251.850	251.851	251.736	30
31	---		---		252.167		252.123	252.024		251.857		251.732	31
MEAN	---	---	---	---	251.987	252.225	252.196	252.067	251.967	251.879	251.840	251.794	MEAN
MAX	---	---	---	---	252.182	252.292	252.254	252.141	252.035	251.922	251.885	251.843	MAX
MIN	---	---	---	---	251.768	252.141	252.123	252.022	251.889	251.816	251.825	251.732	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 252.292 ON JUN 02

MAXIMUM INSTANTANEOUS,
252.383 AT 23:12 CST ON JUN 27

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM 1928 ADJUSTMENT

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 58 20 N
LONG 099 35 20 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
55 000 km²

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.81B	1.34 B	0.511B	1.50B	55.6B	127	118	105	95.7	75.4	77.8	41.9B	1
2	3.23B	1.38 B	0.406B	1.35B	55.0B	156	129	108	78.3	68.5	72.9	40.5B	2
3	3.33B	1.47 B	0.429B	1.80B	55.4	134	130	115	89.9	73.6	76.4	38.9B	3
4	2.73B	1.58 B	0.505B	1.85B	58.4	112	132	109	88.5	84.1	64.0	37.3B	4
5	2.12B	1.57 B	0.529B	1.21B	59.6	125	124	103	82.3	77.2	65.5	36.2B	5
6	1.75B	1.22 B	0.478B	1.17B	62.6	125	122	102	91.8	79.1	44.8	35.5B	6
7	1.56B	1.15 B	0.445B	1.49B	67.2	131	127	97.1	76.6	74.9	48.3	33.9B	7
8	1.91B	1.63 B	0.489B	1.68B	76.0	133	126	107	91.9	73.2	58.6	32.5B	8
9	1.55B	1.70 B	0.642B	1.74B	75.5	130	128	109	87.8	68.1	59.9B	32.0B	9
10	1.40B	1.66 B	0.727B	1.83B	77.4	123	124	99.9	80.1	63.9	61.9B	31.6B	10
11	1.74B	1.65 B	1.02 B	2.06B	82.1	118	125	93.7	88.6	74.4	69.3B	31.2B	11
12	1.71B	1.71 B	1.12 B	2.42B	82.3	127	119	96.0	82.8	68.4	78.4B	31.7B	12
13	1.78B	1.49 B	1.45 B	2.91B	85.1	140	107	94.2	89.6	69.2	76.4B	30.9B	13
14	1.93B	1.45 B	1.41 B	3.44B	85.0	135	120	103	80.8	74.4	74.3B	30.3B	14
15	1.79B	1.21 B	1.56 B	3.72B	85.4	123	122	94.4	90.4	74.0	67.0B	29.8B	15
16	1.55B	1.47 B	1.85 B	3.95B	104	124	119	99.6	77.5	76.7	65.8B	29.0B	16
17	1.64B	1.35 B	1.79 B	4.36B	111	132	125	99.5	69.2	76.9	62.6B	28.4B	17
18	1.52B	1.07 B	1.67 B	6.31B	93.8	128	121	95.5	80.6	67.4	64.6B	27.5B	18
19	1.57B	0.709B	1.50 B	8.81B	93.3	128	122	91.1	81.3	64.7	64.7B	26.7B	19
20	1.60B	0.591B	1.36 B	9.96B	97.1	135	124	90.5	82.1	74.9	61.5B	25.5B	20
21	1.30B	0.778B	1.47 B	11.9 B	102	134	120	88.2	99.3	70.9	62.2B	24.1B	21
22	1.38B	0.799B	1.42 B	12.3 B	113	133	116	85.2	88.6	72.3	37.7B	22.6B	22
23	1.73B	0.895B	1.28 B	10.4 B	113	124	113	89.1	73.7	71.3	40.5B	20.9B	23
24	1.92B	1.02 B	1.16 B	12.4 B	110	121	113	94.5	80.2	71.1	47.8B	20.0B	24
25	1.74B	0.963B	1.04 B	12.8 B	114	127	119	102	77.9	61.4	48.6B	19.1B	25
26	1.80B	0.835B	1.07 B	18.3 B	119	125	110	95.6	81.1	70.3	48.1B	17.8B	26
27	1.86B	0.719B	1.08 B	15.3 B	121	120	104	91.7	82.9	84.5	47.2B	16.3B	27
28	1.83B	0.621B	1.02 B	24.3 B	124	130	116	90.2	78.7	56.1	46.2B	15.4B	28
29	2.00B		0.883B	30.5 B	118	127	122	90.7	72.6	66.8	45.9B	14.8B	29
30	1.95B		0.842B	52.3 B	120	124	109	88.6	67.6	68.9	43.0B	13.6B	30
31	1.48B		1.19 B		116		106	87.2		68.8		12.5B	31
TOTAL	59.21	34.030	32.346	264.06	2 831.8	3 851	3 712	3 015.5	2 488.4	2 221.4	1 781.9	848.4	TOTAL
MEAN	1.91	1.22	1.04	8.80	91.3	128	120	97.3	82.9	71.7	59.4	27.4	MEAN
MAX	3.81	1.71	1.85	52.3	124	156	132	115	99.3	84.5	78.4	41.9	MAX
MIN	1.30	0.591	0.406	1.17	55.0	112	104	85.2	67.6	56.1	37.7	12.5	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 57.9
MAXIMUM DAILY, 156 ON JUN 02
MINIMUM DAILY, 0.406B ON MAR 02
MAXIMUM INSTANTANEOUS,
166 AT 18:49 CST ON JUN 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 51 10 N
LONG 099 32 50 W
DRAINAGE AREA, 55 000 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	5 120	JUL	321 000
FEB	2 940	AUG	261 000
MAR	2 790	SEP	215 000
APR	22 800	OCT	192 000
MAY	245 000	NOV	154 000
JUN	333 000	DEC	73 300

TOTAL DISCHARGE, 1 830 000 dam³

WEAVER LAKE AT OUTLET - STATION NO. 05RE002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	28.057E	27.975	27.927	27.936	29.405	29.475	28.814	28.294	27.953	27.766	27.738	27.724	1
2	28.058A	27.973	27.919	27.938	29.464	29.459	28.805	28.279	27.948	27.813	27.716	27.725	2
3	28.054E	27.974	27.915	27.945	29.516	29.391	28.799	28.255	27.925	27.754	27.703	27.725	3
4	28.049E	27.973	27.914	27.949	29.568	29.373	28.766	28.255	27.913	27.736	27.724	27.725	4
5	28.045E	27.971	27.913	27.948	29.616	29.341	28.737	28.245	27.907	27.756	27.724	27.724	5
6	28.040E	27.969	27.911	27.950	29.659	29.313	28.724	28.231	27.920	27.755	27.722	27.722	6
7	28.035E	27.968	27.910	27.951	29.696	29.306	28.702	28.218	27.890	27.760	27.723	27.723	7
8	28.029A	27.970	27.908	27.952	29.721	29.270	28.671	28.187	27.885	27.764	27.727	27.724	8
9	28.022A	27.969	27.905	27.952	29.747	29.241	28.654	28.186	27.884	27.759	27.724	27.725	9
10	28.022	27.965	27.901	27.950	29.767	29.221	28.650	28.167	27.880	27.759	27.722	27.722	10
11	28.023	27.964	27.901	27.952	29.775	29.201	28.632	28.156	27.874	27.698	27.720	27.722	11
12	28.021	27.966	27.899	27.953	29.774	29.176	28.606	28.149	27.906	27.763	27.719	27.722	12
13	28.020	27.964	27.899	27.952	29.778	29.149	28.586	28.128	27.858	27.719	27.719	27.723	13
14	28.016	27.964	27.899	27.953	29.772	29.127	28.567	28.113	27.842	27.751	27.721	27.722	14
15	28.013	27.961	27.910	27.955	29.765	29.106	28.538	28.119	27.842	27.738	27.719	27.726	15
16	28.010	27.957	27.928	27.954	29.749	29.087	28.524	28.106	27.842	27.748	27.714	27.726	16
17	28.005	27.955	27.933	27.958	29.745	29.073	28.507	28.096	27.836	27.759	27.715	27.724	17
18	28.000	27.955	27.935	27.965	29.750	29.042	28.484	28.096	27.787	27.760	27.715	27.724	18
19	28.000	27.950	27.936	27.988	29.748	29.023	28.471	28.070	27.813	27.767	27.714	27.723	19
20	27.995	27.953	27.935	28.034	29.740	29.016	28.459	28.051	27.838	27.745	27.713	27.720	20
21	27.996	27.950	27.933	28.099	29.725	28.996	28.453	28.036	27.829	27.743	27.716	27.719	21
22	27.995	27.944	27.932	28.191	29.712	28.988	28.436	28.038	27.819	27.765	27.726	27.717	22
23	27.992	27.939	27.934	28.324	29.700	28.970	28.425	28.017	27.810	27.747	27.727	27.716	23
24	27.992	27.936	27.936	28.506	29.679	28.954	28.407	28.004	27.819	27.749	27.727	27.720	24
25	27.988	27.932	27.933	28.709	29.661	28.943	28.401	27.999	27.797	27.742	27.728	27.721	25
26	27.988	27.934	27.934	28.911	29.637	28.924	28.388	27.997	27.765	27.722	27.728	27.721	26
27	27.984	27.931	27.933	29.066	29.623	28.912	28.375	27.974	27.789	27.696	27.725	27.721	27
28	27.981	27.930	27.934	29.182	29.592	28.873	28.325	27.969	27.801	27.736	27.724	27.721	28
29	27.981		27.936	29.276	29.559	28.857	28.316	27.958	27.796	27.706	27.725	27.722	29
30	27.980		27.937	29.344	29.529	28.838	28.286	27.963	27.786	27.731	27.725	27.722	30
31	27.979		27.937		29.503		28.293	27.937		27.732		27.722	31
MEAN	28.012	27.957	27.922	28.225	29.667	29.122	28.542	28.106	27.852	27.748	27.721	27.722	MEAN
MAX	28.058	27.975	27.937	29.344	29.778	29.475	28.814	28.294	27.953	27.813	27.738	27.726	MAX
MIN	27.979	27.930	27.899	27.936	29.405	28.838	28.286	27.937	27.765	27.696	27.703	27.716	MIN

WATER LEVELS IN METRES

MEAN, 28.218
MAXIMUM DAILY, 29.778 ON MAY 13
MINIMUM DAILY, 27.696 ON OCT 27
MAXIMUM INSTANTANEOUS,
29.785 AT 21:46 CST ON MAY 12

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 46 40 N
LONG 096 45 10 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
6 850 km²

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.00 B	0.793B	0.719B	0.639B	---	---	25.7	5.96	---	---	9.99B	5.58B	1
2	0.980B	0.790B	0.716B	0.638B	---	---	26.7	5.98	---	8.58A	9.82B	5.44B	2
3	0.960B	0.788B	0.713B	0.636B	---	---	27.9	5.87	---	8.54	9.67B	5.26B	3
4	0.940B	0.785B	0.711B	0.635B	---	70.4A	28.8	5.81	---	8.65	9.46B	5.12B	4
5	0.920B	0.782B	0.708B	0.633B	---	67.9	28.8	5.66A	---	9.05	9.30B	5.00B	5
6	0.900B	0.780B	0.705B	0.632B	---	62.2	27.8	5.38	---	9.21	9.14B	4.90B	6
7	0.890B	0.777B	0.703B	0.630B	---	56.4	25.9	5.05	---	9.34	8.97B	4.78B	7
8	0.880B	0.774B	0.700B	0.629B	---	51.0	24.2	4.69	---	9.83	8.73B	4.68B	8
9	0.870B	0.772B	0.697B	0.627B	---	46.2	22.5	4.41A	---	9.76	8.56B	4.56B	9
10	0.860B	0.769B	0.695B	0.626B	---	42.5	21.1	4.12	---	9.76	8.35B	4.46B	10
11	0.850B	0.767B	0.692B	0.624B	---	39.6	19.8	3.84A	---	9.86	8.16B	4.36B	11
12	0.845B	0.764B	0.689B	0.623B	---	42.0	18.8	---	---	10.8	8.02B	4.26B	12
13	0.840B	0.761B	0.687B	0.621B	---	53.2	17.5	---	---	11.8	7.88B	4.16B	13
14	0.838B	0.759B	0.684B	0.620B	---	64.7	16.2	---	---	12.5	7.71B	4.06B	14
15	0.835B	0.756B	0.681B	0.618B	---	68.9	15.1	---	---	12.5	7.50B	3.96B	15
16	0.834B	0.753B	0.679B	0.616B	---	69.4	14.1	---	---	12.6	7.42B	3.88B	16
17	0.833B	0.751B	0.676B	0.615B	---	65.3	13.3	---	---	12.7 B	7.32B	3.80B	17
18	0.830B	0.748B	0.673B	0.613B	---	59.1	12.9	---	---	12.6 B	7.21B	3.72B	18
19	0.828B	0.745B	0.671B	0.612B	---	53.7	12.4	---	---	12.4 B	7.06B	3.64B	19
20	0.825B	0.743B	0.668B	0.610B	---	50.5	11.8	---	---	12.3 B	6.96B	3.56B	20
21	0.822B	0.740B	0.665B	0.609B	---	47.0	11.1	---	---	12.2 B	6.84B	3.48B	21
22	0.820B	0.737B	0.663B	0.607B	---	44.0	10.4	---	---	12.1 B	6.74B	3.40B	22
23	0.817B	0.735B	0.660B	0.606B	---	41.1	9.69	---	---	12.0 B	6.62B	3.32B	23
24	0.814B	0.732B	0.657B	0.604B	---	39.5	8.92A	---	---	11.8 B	6.52B	3.24B	24
25	0.812B	0.729B	0.655B	0.603B	---	38.0	8.41	---	---	11.6 B	6.40B	3.16B	25
26	0.809B	0.727B	0.652B	0.601B	---	35.6	7.82	---	---	11.3 B	6.22B	3.08B	26
27	0.806B	0.724B	0.649B	0.600B	---	33.4	7.25	---	---	11.1 B	6.06B	3.00B	27
28	0.804B	0.721B	0.647B	0.598B	---	30.8	6.77A	---	---	10.9 B	5.94B	2.92B	28
29	0.801B		0.644B	0.597B	---	28.8	6.51A	---	---	10.7 B	5.82B	2.86B	29
30	0.798B		0.643B	0.595B	---	27.0	6.27A	---	---	10.5 B	5.70B	2.78B	30
31	0.796B		0.641B		---		6.18	---		10.2 B		2.70B	31
TOTAL	26.457	21.202	21.043	18.517	---	---	500.62	---	---	---	230.09	123.12	TOTAL
MEAN	0.854	0.757	0.679	0.617	---	---	16.1	---	---	---	7.67	3.97	MEAN
MAX	1.00	0.793	0.719	0.639	---	---	28.8	---	---	---	9.99	5.58	MAX
MIN	0.796	0.721	0.641	0.595	---	---	6.18	---	---	---	5.70	2.70	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 0.595B ON APR 30

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 01 33 N
LONG 093 26 54 W
DRAINAGE AREA, 2 180 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 290	JUL	43 300
FEB	1 830	AUG	---
MAR	1 820	SEP	---
APR	1 600	OCT	---
MAY	---	NOV	19 900
JUN	---	DEC	10 600

WEST HAWK LAKE AT WEST HAWK LAKE (CAMPGROUND) - STATION NO. 05PG803

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	332.525	332.680	333.001E	332.596	332.425	332.327	332.224	---	1
2	---	---	---	---	332.531	332.752	332.991	332.589	332.421	332.322	332.222A	---	2
3	---	---	---	---	332.537	332.768	332.991E	332.584	332.412	332.319	---	---	3
4	---	---	---	---	332.540	332.784	332.990	332.573	332.414	332.312	---	---	4
5	---	---	---	---	332.544	332.812	332.979E	332.561	332.408	332.305	---	---	5
6	---	---	---	---	332.547	332.836	332.969E	332.550	332.406	332.301	---	---	6
7	---	---	332.382A	---	332.551	332.852	332.958E	332.538	332.399	332.295	---	---	7
8	---	---	---	---	332.554	332.882	332.947E	332.529	332.394	332.292	---	---	8
9	---	---	---	332.430A	332.556	332.897	332.936E	332.523	332.389	332.288	---	---	9
10	---	---	---	---	332.559	332.907	332.926E	332.514	332.380	332.286	---	---	10
11	---	---	---	---	332.560	332.930	332.915	332.506	332.374	332.281	---	---	11
12	---	---	---	---	332.564	332.952	332.899	332.500	332.367	332.280	---	---	12
13	---	---	---	---	332.570	332.958	332.880	332.493	332.359	332.287	---	---	13
14	---	---	---	---	332.583	332.959	332.865	332.486	332.354	332.286	---	---	14
15	---	---	---	---	332.589	332.956	332.852	332.480	332.348	332.285	---	---	15
16	---	---	---	---	332.611	332.954	332.837	332.478	332.341	332.282	---	---	16
17	---	---	---	---	332.629	332.955	332.823	332.477	332.337	332.280	---	---	17
18	---	---	---	332.431A	332.637	332.951	332.809	332.468	332.350	332.272	---	---	18
19	---	---	---	---	332.644	332.964	332.794	332.460	332.353	332.266	---	---	19
20	---	---	---	---	332.648	332.977	332.777	332.458	332.349	332.263	---	---	20
21	---	---	---	---	332.656	332.989E	332.760	332.456	332.355	332.257	---	---	21
22	---	---	---	---	332.666	333.001E	332.741	332.457	332.356	332.251	---	---	22
23	---	---	---	---	332.672	333.013E	332.723	332.458	332.351	332.249	---	---	23
24	---	---	---	---	332.677	333.024E	332.708	332.458	332.348	332.246	---	---	24
25	---	---	---	332.459A	332.680	333.036E	332.693	332.455	332.344	332.241	---	---	25
26	---	---	---	332.467	332.683	333.048	332.678	332.452	332.343	332.238	---	---	26
27	---	---	---	332.478	332.686	333.039E	332.664	332.448	332.342	332.237	---	---	27
28	---	---	---	332.496	332.685	333.029E	332.654	332.442	332.337	332.236	---	---	28
29	---		---	332.508	332.682	333.020E	332.641	332.437	332.336	332.230	---	---	29
30	---		---	332.518	332.674	333.010E	332.624	332.434	332.328	332.228	---	---	30
31	---		---		332.666		332.609	332.431		332.225		---	31
MEAN	---	---	---	---	332.610	332.931	332.827	332.493	332.367	332.273	---	---	MEAN
MAX	---	---	---	---	332.686	333.048	333.001	332.596	332.425	332.327	---	---	MAX
MIN	---	---	---	---	332.525	332.680	332.609	332.431	332.328	332.225	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 44 45 N
LONG 095 12 41 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1966

DRAINAGE AREA,
154 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.42 B	0.449	0.139	0.418	0.067	0.024	0.026	---	---	1
2	---	---	0 B	2.01 B	0.469	0.411	0.453	0.139	0.022	0.025	---	---	2
3	---	---	0 B	1.58 B	0.454	0.504	0.436	0.238	0.020	0.023	---	---	3
4	---	---	0 B	1.22 B	0.517	0.531	0.423	0.184	0.017	0.023	---	---	4
5	---	---	0 B	0.982B	0.598	0.592	0.330	0.111	0.016	0.024	---	---	5
6	---	---	0 B	0.747B	0.481	0.479	0.372	0.068	0.014	0.024	---	---	6
7	---	---	0	0.511B	0.433	0.354	0.631	0.047	0.014	0.025	---	---	7
8	---	---	0.001B	0.293B	0.375	0.515	0.660	0.044	0.028	0.025	---	---	8
9	---	---	0.003B	0.191B	0.295	0.920	0.649	0.040	0.021	0.024	---	---	9
10	---	---	0.005B	0.114B	0.262	1.24	0.510	0.037	0.017	0.024	---	---	10
11	---	---	0.013B	0.096B	0.255	0.889	0.387	0.037	0.014	0.024	---	---	11
12	---	---	0.136B	0.098B	0.233	0.599	0.344	0.036	0.021	0.024	---	---	12
13	---	---	0.336B	0.099B	0.206	0.460	0.319	0.035	0.034	0.025	---	---	13
14	---	---	1.38 B	0.121B	0.184	0.473	0.304	0.034	0.031	0.025	---	---	14
15	---	---	2.00 B	0.178B	0.445	0.351	0.303	0.032	0.029	0.025	---	---	15
16	---	---	1.99 B	0.233B	0.924	0.613	0.295	0.030	0.026	0.024	---	---	16
17	---	---	0.745B	0.291B	1.30	0.752	0.313	0.028	0.026	0.025	---	---	17
18	---	---	0.360B	0.389B	1.45	0.777	0.280	0.026	0.046	0.024	---	---	18
19	---	---	0.086B	0.446B	1.22	0.636	0.181	0.030	0.074	0.024	---	---	19
20	---	---	0.022B	0.544	0.833	0.629	0.122	0.028	0.045	0.024	---	---	20
21	---	---	0.012B	0.556	0.613	0.510	0.090	0.026	0.048	0.024	---	---	21
22	---	---	0.009B	0.482	0.538	0.333	0.056	0.026	0.040	0.024	---	---	22
23	---	---	0.010B	0.376	0.476	0.200	0.042	0.035	0.037	0.024	---	---	23
24	---	---	0.007B	0.390	0.385	0.170	0.038	0.033	0.033	0.027	---	---	24
25	---	---	0.007B	0.484	0.452	0.157	0.036	0.035	0.031	0.040	---	---	25
26	---	---	0.008B	0.335	0.287	0.281	0.034	0.033	0.026	0.046	---	---	26
27	---	---	0.009B	0.273	0.382	0.295	0.033	0.031	0.024	0.044	---	---	27
28	---	---	0.010B	0.269B	0.301	0.289	0.100	0.028	0.022	0.044	---	---	28
29	---	---	0.023B	0.310B	0.214	0.294	0.131	0.028	0.021	0.044	---	---	29
30	---		0.554B	0.386	0.157	0.283	0.073	0.026	0.024	0.043	---	---	30
31	---		2.09 B		0.132		0.063	0.025		0.044		---	31
TOTAL	---	---	9.816	16.424	15.320	14.676	8.426	1.617	0.845	0.891	---	---	TOTAL
MEAN	---	---	0.317	0.548	0.494	0.489	0.272	0.052	0.028	0.029	---	---	MEAN
MAX	---	---	2.09	2.42	1.45	1.24	0.660	0.238	0.074	0.046	---	---	MAX
MIN	---	---	0	0.096	0.132	0.139	0.033	0.025	0.014	0.023	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 0.278
MAXIMUM DAILY, 2.42B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.81B AT 16:47 CST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 58 00 N
LONG 098 56 50 W
DRAINAGE AREA, 136 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	720
FEB	---	AUG	140
MAR	848	SEP	73.0
APR	1 420	OCT	77.0
MAY	1 320	NOV	---
JUN	1 270	DEC	---

TOTAL DISCHARGE, 5 880 dam³

WHITE LAKE AT WHITE LAKE CAMPGROUND - STATION NO. 05PG811

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	305.721E	305.833E	305.674E	305.636E	305.542E	305.495E	---	1
2	---	---	---	---	---	305.728E	305.833	305.671	305.632E	305.539E	305.494E	---	2
3	---	---	---	---	---	305.736E	305.853E	305.675E	305.628E	305.535E	305.494E	---	3
4	---	---	---	---	---	305.743	305.873E	305.679E	305.624E	305.531E	305.494E	---	4
5	---	---	---	---	---	305.753	305.893	305.683E	305.619E	305.527E	305.493E	---	5
6	---	---	305.591	---	---	305.753E	305.888E	305.687E	305.615E	305.523E	305.493E	---	6
7	---	---	---	---	---	305.753	305.883E	305.691	305.611E	305.519E	305.492E	---	7
8	---	---	---	---	---	305.771E	305.878	305.691E	305.607E	305.516E	305.492E	---	8
9	---	---	---	---	---	305.789E	305.868	305.691E	305.603E	305.512E	305.492E	---	9
10	---	---	---	---	---	305.807E	305.853E	305.691	305.599	305.508	305.491E	---	10
11	---	---	---	---	---	305.825E	305.838E	305.691E	305.595E	305.506E	305.491E	---	11
12	---	---	---	---	---	305.843	305.823	305.691	305.590E	305.504E	305.491E	---	12
13	---	---	---	---	---	305.843	305.813E	305.691	305.586E	305.502E	305.490E	---	13
14	---	---	---	---	---	305.843E	305.803E	305.686E	305.582E	305.500E	305.490E	---	14
15	---	---	---	---	---	305.843E	305.793E	305.681E	305.578E	305.498	305.490E	---	15
16	---	---	---	---	---	305.843E	305.783	305.676	305.573E	305.498E	305.489E	---	16
17	---	---	---	---	305.745	305.843E	305.773E	305.673E	305.569	305.498E	305.489E	---	17
18	---	---	---	---	305.737E	305.843	305.762	305.671E	305.574E	305.497E	305.488E	---	18
19	---	---	---	---	305.729E	305.850E	305.752	305.668E	305.579	305.497E	305.488E	---	19
20	---	---	---	---	305.721E	305.856	305.750E	305.665	305.577E	305.497E	305.488E	---	20
21	---	---	---	---	305.713	305.853	305.747	305.662E	305.575E	305.497E	305.487E	---	21
22	---	---	---	---	305.720E	305.853	305.735E	305.658E	305.573E	305.497E	305.487	---	22
23	---	---	---	---	305.726E	305.846E	305.722	305.655	305.571E	305.496E	305.488E	---	23
24	---	---	---	---	305.733	305.840E	305.707E	305.676	305.569	305.496E	305.488E	---	24
25	---	---	---	---	305.726E	305.833	305.692E	305.669E	305.565E	305.496E	305.489E	---	25
26	---	---	---	---	305.719E	305.838	305.677	305.663E	305.561E	305.496E	305.490E	---	26
27	---	---	---	---	305.712E	305.833	305.678E	305.656	305.558E	305.495E	305.491E	---	27
28	---	---	---	---	305.705E	305.833E	305.679E	305.652E	305.554E	305.495E	305.491E	---	28
29	---		---	---	305.698	305.833	305.680E	305.648E	305.550E	305.495	305.492	---	29
30	---		---	---	305.706E	305.833E	305.681	305.644E	305.546E	305.495E	305.492E	---	30
31	---		---		305.713E		305.678E	305.640E		305.495E		---	31
MEAN	---	---	---	---	---	305.813	305.781	305.673	305.587	305.507	305.491	---	MEAN
MAX	---	---	---	---	---	305.856	305.893	305.691	305.636	305.542	305.495	---	MAX
MIN	---	---	---	---	---	305.721	305.677	305.640	305.546	305.495	305.487	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 305.893 ON JUL 05

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 02 03 N
LONG 095 30 48 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1966

DRAINAGE AREA,
930 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WHITEMOUTH LAKE NEAR THE OUTLET - STATION NO. 05PH005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	343.999E	343.999	343.972	344.023	344.087	343.916	343.846	---	---	1
2	---	---	---	343.999A	344.006	343.953	344.030	344.072	343.937	343.882	---	---	2
3	---	---	---	343.996	344.015	343.938	344.099	344.048	343.940	343.834	---	---	3
4	---	---	---	343.995	344.012	343.989	344.098	344.030	343.902	343.812	---	---	4
5	---	---	---	343.991	344.006	343.983	344.106	344.043	343.920	343.838	---	---	5
6	---	---	---	343.993	344.017	343.974	344.132	344.048	343.900	343.825	---	---	6
7	---	---	---	343.993	344.016	343.997	344.137	344.047	343.905	343.837A	---	---	7
8	---	---	---	343.997	343.991	343.990	344.128	344.033	343.900	343.835E	---	---	8
9	---	---	---	343.996	343.979	343.985	344.129	344.014	343.885	343.835E	---	---	9
10	---	---	---	343.991	343.994	344.000	344.139	344.003	343.895	343.870E	---	---	10
11	---	---	---	343.993	343.988	344.025	344.134	344.012	343.892	343.832E	---	---	11
12	---	---	---	343.994	343.993	343.994	344.137	344.006	343.894	343.827A	---	---	12
13	---	---	---	343.992	343.992	343.993	344.141	344.023	343.870	343.842A	---	---	13
14	---	---	---	343.988	343.994	343.972	344.138	343.986	343.868	343.829A	---	---	14
15	---	---	---	343.990	344.015	343.984	344.118	344.005	343.838	343.816A	---	---	15
16	---	---	---	343.992	344.010	343.985	344.122	343.998	343.871	343.818A	---	---	16
17	---	---	---	343.995	343.949	343.983	344.115	343.981	343.892	343.796A	---	---	17
18	---	---	---	343.994	343.995	343.995	344.108	343.981	343.874	343.809A	---	---	18
19	---	---	---	343.992	344.015	344.002	344.099	343.984	343.863	343.846A	---	---	19
20	---	---	---	343.994	344.006	343.997	344.097	343.977	343.875	343.814A	---	---	20
21	---	---	---	343.993	344.014	344.006	344.094	343.976	343.836	343.805A	---	---	21
22	---	---	---	343.996	344.006	344.012	344.094	343.985	343.830	343.828A	---	---	22
23	---	---	---	344.003	344.002	344.020	344.103	343.982	343.863	343.805A	---	---	23
24	---	---	---	344.003	344.006	344.027	344.104	343.966	343.855	343.811A	---	---	24
25	---	---	---	344.018	344.000	344.018	344.100	343.957	343.847	343.834A	---	---	25
26	---	---	---	343.995	343.990	344.016	344.110	343.952	343.854	343.816A	---	---	26
27	---	---	---	343.992	343.975	344.028	344.102	343.951	343.845	343.764A	---	---	27
28	---	---	---	344.005	343.975	344.017	344.089	343.943	343.847	343.843A	---	---	28
29	---		---	344.027	343.975	344.008	344.059	343.943	343.852	343.815	---	---	29
30	---		---	344.014	343.976	344.011	344.063	343.942	343.861	343.814A	---	---	30
31	---		---		343.984		344.076	343.933		343.814E		---	31
MEAN	---	---	---	343.997	343.997	343.996	344.104	343.997	343.878	343.826	---	---	MEAN
MAX	---	---	---	344.027	344.017	344.028	344.141	344.087	343.940	343.882	---	---	MAX
MIN	---	---	---	343.988	343.949	343.938	344.023	343.933	343.830	343.764	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 344.141 ON JUL 13
MINIMUM DAILY, 343.764A ON OCT 27
MAXIMUM INSTANTANEOUS,
344.155 AT 02:20 CST ON JUL 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 16 40 N
LONG 095 41 50 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
294 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.885B	0.094B	0.242B	9.30B	17.0	14.5	26.5	2.24	0.098	0.115	0.242	0.331B	1
2	0.873B	0.061B	0.245B	10.1 B	16.8	33.8	23.1	2.13	0.112	0.105	0.196	0.278B	2
3	0.821B	0.094B	0.167B	11.0 B	16.4	74.0	23.4	2.02	0.160	0.101	0.160	0.269B	3
4	0.660B	0.126B	0.266B	12.7 B	16.1	80.6	24.9	1.81	0.151	0.091	0.159	0.237B	4
5	0.542B	0.148B	0.251B	11.8 B	15.9	74.3	22.2	1.67	0.073	0.085	0.159	0.193B	5
6	0.471B	0.138B	0.267B	9.58B	15.9	71.4	20.2	1.44	0.060	0.090	0.169	0.189B	6
7	0.509B	0.146B	0.324B	8.18B	15.5	67.3	21.6	1.28	0.050	0.088	0.173	0.178B	7
8	0.596B	0.138B	0.328B	6.40B	15.3	61.7	23.0	1.17	0.093	0.087	0.174	0.173B	8
9	0.543B	0.129B	0.447B	4.95B	15.5	60.5A	21.7	1.02	0.208	0.084	0.175	0.168B	9
10	0.518B	0.139B	0.611B	4.36B	15.4	58.8E	19.2	0.870	0.102	0.081	0.177	0.172B	10
11	0.691B	0.118B	0.728B	4.15B	14.9	65.8A	16.6	0.761	0.052	0.074	0.178	0.207B	11
12	0.648B	0.135B	1.24 B	4.28B	13.9A	68.9	14.4	0.684	0.056	0.070	0.178	0.216B	12
13	0.536B	0.124B	1.92 B	4.65B	14.1E	65.2	12.5	0.585	0.064	0.077	0.244	0.207B	13
14	0.426B	0.130B	2.73 B	4.51B	14.8A	59.6	10.9	0.543	0.072	0.070	0.311	0.202B	14
15	0.409B	0.113B	3.77 B	4.25B	16.1	54.2	9.51	0.502	0.066	0.067	0.235	0.208B	15
16	0.385B	0.139B	5.1C B	4.80B	16.8	48.5	8.43	0.473	0.062	0.082	0.195	0.206B	16
17	0.363B	0.125B	4.07 B	4.64B	19.3	42.8	7.67	0.456	0.056	0.093	0.217	0.186B	17
18	0.334B	0.151B	4.65 B	4.29B	26.2	38.0	7.22	0.352	0.086	0.111	0.287	0.161B	18
19	0.293B	0.199B	4.43 B	5.02	29.3	40.2	6.64	0.273	0.127	0.128	0.322	0.148B	19
20	0.287B	0.191B	4.23 B	5.16	29.2	58.2	6.10	0.261	0.080	0.195	0.322	0.150B	20
21	0.285B	0.204B	3.95 B	6.33	28.0	67.9	6.27	0.220	0.085	0.303	0.337	0.159B	21
22	0.252B	0.227B	3.77 B	7.58	28.1	63.2	5.72	0.170	0.116	0.268	0.381	0.163B	22
23	0.219B	0.233B	3.63 B	8.64	29.2	57.8	5.00	0.141	0.147	0.231	0.445	0.166B	23
24	0.252B	0.225B	3.50 B	9.99	29.2	52.6	4.50	0.181	0.266	0.289	0.448B	0.169B	24
25	0.274B	0.237B	3.36 B	11.1	27.6	46.9	3.97	0.215	0.147	0.289	0.448B	0.173B	25
26	0.241B	0.243B	3.22 B	12.7	25.8	42.7	3.59	0.141	0.137	0.377	0.439B	0.180B	26
27	0.265B	0.285B	3.04 B	14.0	23.6	39.4	3.29	0.131	0.149	0.332	0.414B	0.184B	27
28	0.223B	0.255B	2.95 B	14.3	21.2	36.6	3.13	0.127	0.145	0.290	0.380B	0.196B	28
29	0.214B		2.90 B	15.4	19.2	33.3	2.93	0.105	0.114	0.271	0.348B	0.200B	29
30	0.147B		3.80 B	16.7	17.3	29.9	2.67	0.102	0.109	0.289	0.341B	0.208B	30
31	0.100B		6.36 B		15.8		2.44	0.097		0.263		0.227B	31
TOTAL	13.262	4.547	76.496	250.86	619.1	1 608.9	369.28	22.170	3.243	5.096	8.254	6.104	TOTAL
MEAN	0.428	0.162	2.47	8.36	20.0	53.6	11.9	0.715	0.108	0.164	0.275	0.197	MEAN
MAX	0.885	0.285	6.36	16.7	29.3	80.6	26.5	2.24	0.266	0.377	0.448	0.331	MAX
MIN	0.100	0.061	0.167	4.15	13.9	14.5	2.44	0.097	0.050	0.067	0.159	0.148	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.18
MAXIMUM DAILY, 80.6 ON JUN 04
MINIMUM DAILY, 0.050 ON SEP 07
MAXIMUM INSTANTANEOUS,
82.1 AT 09:17 CST ON JUN 04

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 56 20 N
LONG 095 57 20 W

DRAINAGE AREA, 1 750 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 150	JUL	31 900
FEB	393	AUG	1 920
MAR	6 610	SEP	280
APR	21 700	OCT	440
MAY	53 500	NOV	713
JUN	139 000	DEC	527

TOTAL DISCHARGE, 258 000 dam³

WHITEMUD RIVER ABOVE GLADSTONE DAM - STATION NO. 05LL810

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	269.625E	269.237	269.136	268.961	268.891	268.854E	268.676	268.991	---	1
2	---	---	---	269.631	269.131	269.141	268.960	268.896	268.851	268.671	268.986	---	2
3	---	---	---	269.704	269.121	269.151	268.959	268.913	268.846	268.676	268.991	---	3
4	---	---	---	269.691	269.111	269.146	268.957	268.916	268.846	268.681	---	---	4
5	---	---	---	269.541	269.111	269.131	268.965	268.914	268.841	268.686	---	---	5
6	---	---	---	269.546E	269.111	269.125	268.965	268.907	268.831	268.686	---	---	6
7	---	---	---	269.551	269.101	269.111	268.973	268.896	268.829	268.676E	---	---	7
8	---	---	---	269.540E	269.081	269.111	269.005	268.877	268.826	268.666	---	---	8
9	---	---	---	269.529E	269.081	269.110	269.004	268.853	268.821	268.661	---	---	9
10	---	---	---	269.518E	269.071	269.099	268.996	268.846	268.821	268.641	---	---	10
11	---	---	---	269.507	269.061E	269.089	268.986	268.834	268.821	268.646	---	---	11
12	---	---	---	270.032	269.051	269.081	268.980	268.847E	268.823	268.686	---	---	12
13	---	---	---	269.678	269.041	269.131	268.976	268.860E	268.811	268.724E	---	---	13
14	---	---	---	269.553	269.041	269.121	268.973	268.873	268.806	268.761	---	---	14
15	---	---	---	269.325	269.031	269.115	268.971	268.871E	268.806E	268.816	---	---	15
16	---	---	---	269.271	269.066	269.121	268.970	268.870E	268.806	268.859E	---	---	16
17	---	---	---	269.261	269.261	269.116	268.969	268.868E	268.801	268.901	---	---	17
18	---	---	---	269.241	269.362	269.121	268.961	268.867E	268.806	268.961	---	---	18
19	---	---	---	269.228	269.517	269.112	268.956	268.865	268.786	268.986	---	---	19
20	---	---	---	269.232	269.408	269.112	268.913	268.865E	268.786	268.996	---	---	20
21	---	---	---	269.263	269.371	269.152	268.890	268.865	268.786	268.996	---	---	21
22	---	---	---	269.320	269.323	269.142	268.894	268.865	268.770E	268.986	---	---	22
23	---	---	---	269.321	269.301	269.131	268.895	268.864	268.753	268.991	---	---	23
24	---	---	---	269.319	269.281	269.114	268.894	268.864	268.731	268.976	---	---	24
25	---	---	---	269.317	269.247	269.111	268.895	268.864	268.721	268.976	---	---	25
26	---	---	---	269.282	269.180	269.080	268.896	268.861	268.706	268.986	---	---	26
27	---	---	---	269.280	269.219	269.022	268.895	268.864	268.701	268.991	---	---	27
28	---	---	---	269.283	269.187	268.990	268.895	268.866	268.686	269.001	---	---	28
29	---	---	---	269.266	269.170	268.968	268.902	268.866	268.683E	269.016	---	---	29
30	---	---	---	269.256	269.161	268.961	268.900	268.863	268.679E	269.016	---	---	30
31	---	---	---		269.146		268.896	268.856		269.006		---	31
MEAN	---	---	---	269.437	269.180	269.102	268.944	268.872	268.788	268.839	---	---	MEAN
MAX	---	---	---	270.032	269.517	269.152	269.005	268.916	268.854	269.016	---	---	MAX
MIN	---	---	---	269.228	269.031	268.961	268.890	268.834	268.679	268.641	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 13 30 N
LONG 098 55 44 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1942

DRAINAGE AREA,
1 980 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.206B	0.247B	0.327B	3.83B	5.71	3.19	1.45	0.318	0.663	0.129	0.616	0.346B	1
2	0.206B	0.255B	0.333B	5.48B	5.56	3.19	1.36	0.334	0.539	0.028	0.775	0.346B	2
3	0.198B	0.255B	0.330B	7.06B	5.42	3.10	1.44	0.344	0.427	0.008	0.846	0.333B	3
4	0.202B	0.250B	0.335B	16.6 B	5.39	3.08	1.44	0.322	0.340	0	0.868	0.327B	4
5	0.197B	0.258B	0.348B	12.4 B	5.32	3.19	1.46	0.290	0.281	0.003	0.806	0.314B	5
6	0.192B	0.252B	0.348B	10.5 B	5.25	3.20	1.54	0.312	0.240	0.041	0.615	0.313B	6
7	0.193B	0.248B	0.352B	10.4 B	4.92	3.39	1.76	0.426	0.227	0.070	0.527	0.314B	7
8	0.193B	0.253B	0.356B	10.2 B	4.60	4.01	2.05	0.482	0.224	0.111	0.582	0.318B	8
9	0.186B	0.258B	0.357B	9.67B	3.95	4.01	2.46	0.463	0.216	0.181	0.615	0.314B	9
10	0.188B	0.281B	0.365B	10.4 B	3.72	4.34	3.19	0.375	0.190	0.229	0.533	0.311B	10
11	0.196B	0.291B	0.368B	10.1 B	3.20	5.83	3.50	0.297	0.166	0.235	0.554	0.312B	11
12	0.199B	0.291B	0.454B	9.86	3.03	6.11	3.19	0.263	0.133	0.256	0.542	0.309B	12
13	0.193B	0.289B	4.80 B	9.52	2.83	6.17	2.48	0.218	0.117	0.257	0.538	0.306B	13
14	0.196B	0.289B	6.59 B	8.83	2.75	5.51	2.01	0.204	0.119	0.271	0.536	0.305B	14
15	0.193B	0.289B	1.15 B	7.90	2.69	4.29	1.61	0.166	0.118	0.278	0.541	0.304B	15
16	0.201B	0.296B	1.23 B	7.62	2.79	3.55	1.39	0.127	0.088	0.285	0.612	0.302B	16
17	0.204B	0.307B	1.98 B	7.30	3.35	3.19	1.21	0.101	0.057	0.293	0.608	0.301B	17
18	0.199B	0.307B	3.96 B	6.95	6.81	2.97	1.09	0.095	0.051	0.290	0.616	0.300B	18
19	0.206B	0.298B	1.47 B	6.20	11.5	3.17	1.03	0.096	0.041	0.293	0.607	0.299B	19
20	0.212B	0.302B	1.01 B	6.03	12.7	4.17	1.05	0.107	0.032	0.324	0.604	0.302B	20
21	0.220B	0.304B	0.922B	6.47	12.8	3.88	0.935	0.116	0.034	0.383	0.589B	0.297B	21
22	0.225B	0.301B	0.888B	7.08	11.8	3.67	0.861	0.111	0.030	0.446	0.447B	0.274B	22
23	0.219B	0.305B	0.860B	7.79	9.00	3.42	0.813	0.111	0.022	0.542	0.467B	0.267B	23
24	0.218B	0.310B	0.869B	7.74	7.20	3.16	0.733	0.114	0.020	0.691	0.453B	0.267B	24
25	0.230B	0.317B	0.837B	7.30	6.28	2.81	0.661	0.673	0.025	0.709	0.445B	0.266B	25
26	0.229B	0.323B	0.842B	6.90	5.62	2.39	0.630	0.892	0.036	0.776	0.436B	0.266B	26
27	0.233B	0.319B	0.647B	6.77	5.48	2.12	0.594	0.945	0.049	0.765	0.417B	0.265B	27
28	0.243B	0.322B	0.530B	6.58	5.01	1.90	0.531	0.798	0.069	0.726	0.377B	0.264B	28
29	0.242B		0.521B	6.45	4.22	1.71	0.439	0.609	0.103	0.881	0.362B	0.264B	29
30	0.249B		2.08 B	5.93	4.03	1.56	0.356	0.399	0.130	0.753	0.358B	0.264B	30
31	0.251B		8.64 B		3.60		0.320	0.519		0.607		0.264B	31
TOTAL	6.519	8.017	46.099	242.86	176.55	106.28	43.683	10.827	4.787	10.861	16.892	9.234	TOTAL
MEAN	0.210	0.286	1.49	8.10	5.70	3.54	1.41	0.349	0.160	0.350	0.563	0.298	MEAN
MAX	0.251	0.323	8.64	16.6	12.8	6.17	3.50	0.945	0.663	0.881	0.868	0.346	MAX
MIN	0.186	0.247	0.327	2.48	2.69	1.56	0.320	0.095	0.020	0	0.358	0.264	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.87
MAXIMUM DAILY, 16.6B ON APR 04
MINIMUM DAILY, 0 ON OCT 04
MAXIMUM INSTANTANEOUS
18.9B AT 16:45 CST ON APR 04

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 08 03 N
LONG 098 35 00 W
DRAINAGE AREA, 6 380 km²

B - ICE CONDITIONS

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	563	JUL	3 770
FEB	693	AUG	935
MAR	3 980	SEP	414
APR	21 000	OCT	938
MAY	15 300	NOV	1 460
JUN	9 180	DEC	798

TOTAL DISCHARGE, 59 000 dam³

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.104B	0.170B	0.159B	12.2 B	1.72	1.01	0.201	0.096	0.101	0.100	0.193	0.104B	1
2	0.112B	0.147B	0.166B	14.9 B	1.51	1.06	0.168	0.128	0.104	0.078	0.190	0.096B	2
3	0.120B	0.160B	0.170B	13.5 B	1.45	0.947	0.242	0.132	0.094	0.061	0.184	0.088B	3
4	0.126B	0.162B	0.172B	9.54B	1.37	0.831	0.335	0.110	0.079	0.067	0.177	0.095B	4
5	0.135B	0.150B	0.179B	6.32B	1.29	0.814	0.274	0.133	0.063	0.060	0.173	0.103B	5
6	0.139B	0.149B	0.184B	6.85B	1.17	0.688	0.315	0.101	0.056	0.066	0.173	0.110B	6
7	0.140B	0.148B	0.180B	7.67B	1.05	0.623	0.472	0.097	0.063	0.058	0.157B	0.118B	7
8	0.143B	0.151B	0.184B	5.96B	1.03	0.854	0.668	0.094	0.087	0.067	0.152B	0.123B	8
9	0.144B	0.143B	0.202B	5.69B	0.918	0.889	0.851	0.079	0.084	0.062	0.153B	0.126B	9
10	0.149B	0.144B	0.216B	5.22B	0.828	0.836	0.727	0.072	0.073	0.100	0.239B	0.129B	10
11	0.146B	0.149B	0.221B	4.59B	0.740	0.808	0.570	0.080	0.056	0.132	0.291B	0.133B	11
12	0.145B	0.146B	0.268B	5.23B	0.677	0.707	0.476	0.085	0.044	0.089	0.188B	0.132B	12
13	0.142B	0.143B	1.49 B	4.99	0.650	0.691	0.400	0.085	0.038	0.100	0.163B	0.129B	13
14	0.136B	0.139B	3.76 B	4.26	0.617	0.724	0.350	0.082	0.034	0.221	0.157B	0.126B	14
15	0.132B	0.138B	7.94 B	3.26	0.598	0.642	0.326	0.096	0.034	0.189	0.150B	0.118B	15
16	0.132B	0.131B	2.37 B	2.78	0.973	0.575	0.307	0.098	0.030	0.187	0.149B	0.124B	16
17	0.139B	0.129B	0.513B	2.31	3.73	0.503	0.328	0.098	0.035	0.275	0.147B	0.118B	17
18	0.139B	0.131B	0.358B	1.88	10.1	0.630	0.282	0.085	0.051	0.256	0.141B	0.130B	18
19	0.137B	0.123B	0.432B	1.99	10.5	0.597	0.234	0.083	0.073	0.205	0.140B	0.146B	19
20	0.135B	0.126B	0.595B	3.20	9.70	1.04	0.261	0.092	0.080	0.178	0.130B	0.146B	20
21	0.136B	0.128B	0.504B	5.59	7.98	0.897	0.222	0.097	0.087	0.161	0.149B	0.143B	21
22	0.141B	0.128B	0.530B	6.36	6.22	0.789	0.181	0.097	0.100	0.143	0.135B	0.137B	22
23	0.144B	0.139B	0.494B	6.38	5.06	0.618	0.158	0.097	0.110	0.161	0.117B	0.133B	23
24	0.144B	0.153B	0.487B	5.86	3.87	0.499	0.139	0.092	0.188	0.194	0.125B	0.138B	24
25	0.143B	0.159B	0.482B	4.88	2.82	0.420	0.131	0.122	0.191	0.352	0.109B	0.138B	25
26	0.153B	0.161B	0.421B	4.00	2.11	0.394	0.127	0.136	0.132	0.213	0.107B	0.130B	26
27	0.147B	0.156B	0.417B	4.21	1.58	0.384	0.125	0.100	0.138	0.191	0.110B	0.133B	27
28	0.147B	0.158B	0.406B	3.98	1.29	0.347	0.127	0.090	0.115	0.171	0.104B	0.138B	28
29	0.152B		0.486B	3.44	1.11	0.279	0.115	0.127	0.131	0.171	0.101B	0.142B	29
30	0.132B		0.867B	2.06	0.974	0.226	0.106	0.107	0.123	0.182	0.111B	0.140B	30
31	0.136B		4.08 B		0.892		0.099	0.106		0.175		0.134B	31
TOTAL	4.270	4.063	27.933	168.10	84.517	20.322	9.315	3.097	2.594	4.669	4.615	3.900	TOTAL
MEAN	0.138	0.145	0.901	5.60	2.73	0.677	0.301	0.100	0.087	0.151	0.154	0.126	MEAN
MAX	0.153	0.170	7.94	14.9	10.5	1.06	0.851	0.136	0.191	0.352	0.291	0.146	MAX
MIN	0.104	0.123	0.159	1.88	0.598	0.226	0.099	0.072	0.030	0.058	0.101	0.088	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.924
MAXIMUM DAILY, 14.9B ON APR 02
MINIMUM DAILY, 0.030 ON SEP 16
MAXIMUM INSTANTANEOUS
17.6B AT 18:23 CST ON APR 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 11 15 N
LONG 099 06 10 W
DRAINAGE AREA, 1 850 km²

B - ICE CONDITIONS

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	369	JUL	805
FEB	351	AUG	268
MAR	2 410	SEP	224
APR	14 500	OCT	403
MAY	7 300	NOV	399
JUN	1 760	DEC	337

TOTAL DISCHARGE, 29 100 dam³

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.77	---	1.35	1.20	1.51	5.27	14.1	9.53	2.90	1.57	0.806	0.659	1
2	1.74	---	1.33	1.22	1.51	6.46	13.8	9.17	2.92	1.63	0.792	0.671	2
3	1.78	---	1.34	1.26	1.71	6.68	15.6	8.84	2.86	1.50	0.771	0.671	3
4	1.79	---	1.33	1.27	1.78	6.97	16.5	7.95	2.78	1.38	0.755	0.671	4
5	1.77	---	1.33	1.24	1.80	8.87	16.5	7.89	2.78	1.35	0.763	0.675	5
6	1.75	---	1.31	1.25	1.81	9.97	16.6	7.78	2.64	1.30	0.744	0.671	6
7	1.72	---	1.29	1.28	1.90	9.94	17.5	7.63	2.58	1.29	0.741	0.664	7
8	1.75	---	1.26	1.30	1.94	10.5	17.4	7.19	2.46	1.27	0.730	0.656	8
9	1.75	---	1.25	1.32	1.83	10.9	17.5	6.92	2.34	1.25	0.723	0.652	9
10	1.75	---	1.23	1.29	1.90	11.1	17.1	6.68	2.33	1.33	0.717	0.640	10
11	1.77	---	1.23	1.13	1.92	12.2	16.8	6.57	2.29	1.13	0.718	0.632	11
12	1.77	---	1.25	0.900	1.96	12.6	16.6	6.39	2.20	1.10	0.722	0.633	12
13	1.75	---	1.31	0.913	2.07	12.7	16.3	6.38	2.12	1.16	0.715	0.635	13
14	1.73	---	1.35	0.936	2.18	14.1	16.0	5.89	2.07	1.12	0.711	0.633	14
15	1.73	---	1.48	0.930	2.34	15.3	15.6	5.89	1.95	1.09	0.710	0.624	15
16	1.71	---	1.64	0.919	3.43	14.9	15.2	5.13	1.95	1.08	0.702	0.625	16
17	1.71A	---	1.64	0.904	4.28	14.6	15.0	4.00	2.00	1.03	0.683	0.617	17
18	---	---	1.63	0.913	4.57	14.3	14.6	3.97	2.02	1.03	0.665	0.614	18
19	---	---	1.65	0.913	4.51	14.4	14.0	3.94	1.96	1.07	0.656	0.614	19
20	---	---	1.67	0.945	4.47	14.3	13.7	3.93	1.95	1.01	0.658	0.622	20
21	---	---	1.70	0.971	4.61	14.5	13.5	3.89	1.91	0.988	0.671	0.618	21
22	---	---	1.72	1.01	4.87	14.4	13.1	3.87	1.90	0.982	0.671	0.620	22
23	---	---	1.75	1.13	4.94	14.2	12.8	3.80	1.95	0.929	0.669	0.614	23
24	---	---	1.73	1.14	5.01	14.2	12.4	3.65	1.86	0.916	0.680	0.609	24
25	---	---	1.72	1.20	6.13	14.3	12.0	3.53	1.79	0.933	0.676	0.603	25
26	---	---	1.72	1.13	6.59	14.3	11.7	3.42	1.76	0.903	0.680	0.598	26
27	---	---	1.73	1.18	6.23	14.3	10.7	3.48	1.71	0.845	0.681	0.596	27
28	---	1.37A	1.37	1.36	5.99	14.2	10.3	3.41	1.62	0.854	0.675	0.596	28
29	---		1.02	1.44	5.84	14.2	9.87	3.27	1.56	0.844	0.678	0.594	29
30	---		1.10	1.50	5.71	14.1	9.68	3.15	1.61	0.829	0.667	0.589	30
31	---		1.16		5.46		9.61	3.06		0.818		0.587	31
TOTAL	---	---	44.56	34.094	110.70	368.76	441.76	170.20	64.80	34.521	21.230	19.503	TOTAL
MEAN	---	---	1.44	1.14	3.57	12.3	14.3	5.49	2.16	1.11	0.708	0.629	MEAN
MAX	---	---	1.73	1.50	6.59	15.3	17.5	9.53	2.92	1.63	0.806	0.675	MAX
MIN	---	---	1.02	0.900	1.51	5.27	9.61	3.06	1.59	0.818	0.656	0.587	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 17.5 ON JUL 07
MINIMUM DAILY, 0.587 ON DEC 31
MAXIMUM INSTANTANEOUS
17.8 AT 03:11 CST ON JUL 07

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 02 20 N
LONG 095 30 20 W
DRAINAGE AREA, 884 km²
A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	38 200
FEB	---	AUG	14 700
MAR	3 850	SEP	5 600
APR	2 950	OCT	2 980
MAY	9 560	NOV	1 830
JUN	31 900	DEC	1 690

WHITEWATER LAKE NEAR BOISSEVAIN - STATION NO. 05NG023

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	1
2	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	2
3	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	3
4	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	4
5	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	5
6	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	6
7	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	7
8	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	8
9	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	9
10	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	10
11	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	11
12	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	12
13	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	13
14	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	14
15	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	15
16	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	16
17	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	17
18	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	18
19	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	19
20	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	20
21	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	21
22	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	22
23	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	23
24	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	24
25	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	25
26	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	26
27	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	27
28	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	28
29	---		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	29
30	---		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	30
31	---		DRY		DRY		DRY	DRY		DRY		---	31
MEAN	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	MEAN
MAX	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	MAX
MIN	---	---	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY,DRY ON MAR 1
MINIMUM DAILY,DRY ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 26 N
LONG 100 19 29 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
728 km²

WILD GOOSE CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF066

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0A	0	0	0.008E	0.003E	0 E	0 E	0	0	0A	0	0	1
2	0	0	0	0.002A	0.003A	0.001E	0 E	0	0	0	0	0	2
3	0	0	0	0.002E	0.003E	0.003E	0.001E	0	0	0	0	0A	3
4	0	0	0	0.002A	0.002E	0.005A	0.001E	0	0A	0	0	0	4
5	0	0	0	0.001E	0.002E	0.007E	0 A	0	0	0	0A	0	5
6	0	0	0	0 A	0.002E	0.009E	0 E	0	0	0	0	0	6
7	0	0	0	0 E	0.001A	0.011E	0.001E	0A	0	0	0	0	7
8	0	0	0	0.001E	0.001E	0.013A	0.001E	0	0	0	0	0	8
9	0	0	0	0.001A	0.001A	0.015E	0 A	0	0	0A	0	0	9
10	0	0	0	0.001E	0.001E	0.018E	0 E	0	0A	0	0	0	10
11	0	0	0	0 E	0.001E	0.020A	0 E	0	0	0	0	0	11
12	0	0	0 A	0 A	0.001E	0.010E	0 E	0	0	0	0	0	12
13	0	0	0 E	0 E	0.001E	0.004A	0 E	0	0	0	0	0	13
14	0	0	0 A	0 E	0.001A	0.003E	0 E	0A	0	0	0A	0	14
15	0	0	0.001A	0 E	0.001E	0.002E	0 E	0	0	0A	0	0	15
16	0	0	0.001A	0 A	0.001A	0.001E	0 A	0	0	0	0	0	16
17	0	0	0.006A	0 E	0.001E	0.001E	0 E	0	0A	0	0	0	17
18	0	0	0.006E	0.001E	0.002A	0 A	0 E	0	0	0	0	0	18
19	0	0	0.006A	0.002A	0.002E	0.029E	0 E	0	0	0A	0	0	19
20	0	0	0.005E	0.002E	0.001E	0.127A	0 E	0A	0	0	0	0	20
21	0	0	0.004A	0.003E	0.001E	0.018A	0 E	0	0	0	0	0	21
22	0	0	0.003E	0.003E	0.001E	0.007A	0 E	0	0	0	0	0	22
23	0	0	0.002A	0.003A	0.001A	0.003E	0 A	0	0	0	0	0	23
24	0	0	0.001E	0.003E	0.001E	0.001E	0 E	0	0A	0	0	0	24
25	0	0	0.001E	0.003E	0.001E	0.001E	0 E	0	0	0	0	0	25
26	0	0	0 A	0.003E	0 E	0.001E	0.001A	0	0	0	0A	0	26
27	0	0	0.001E	0.003A	0 E	0.001E	0.001E	0	0	0	0	0	27
28	0	0	0.001A	0.003E	0 A	0 E	0 E	0A	0	0	0	0	28
29	0		0.005E	0.003E	0 E	0 E	0 E	0	0	0A	0	0	29
30	0		0.014A	0.003E	0 E	0 E	0 E	0	0	0	0	0	30
31	0		0.018A		0 A		0 A	0		0		0	31
TOTAL	0	0	0.075	0.053	0.036	0.311	0.006	0	0	0	0	0	TOTAL
MEAN	0	0	0.002	0.002	0.001	0.010	0	0	0	0	0	0	MEAN
MAX	0	0	0.018	0.008	0.003	0.127	0.001	0	0	0	0	0	MAX
MIN	0	0	0	0	0	0	0	0	0	0	0	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.001
MAXIMUM DAILY, 0.127A ON JUN 20
MINIMUM DAILY, 0A ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 00 N
LONG 095 52 54 W
DRAINAGE AREA, 0.43 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN 0	JUL 0.518
FEB 0	AUG 0
MAR 6.48	SEP 0
APR 4.58	OCT 0
MAY 3.11	NOV 0
JUN 26.9	DEC 0

TOTAL DISCHARGE, 41.6 dam³

DATA CONTRIBUTED BY -
ATOMIC ENERGY OF CANADA

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	8.70	0.107	0.053	0.002	0	0	0	---	---	1
2	---	---	0 B	5.03	0.087	0.055	0.002	0	0	0	---	---	2
3	---	---	0 B	4.67	0.075	0.057	0.004	0	0	0	---	---	3
4	---	---	0 B	4.54	0.064	0.064	0.002	0	0	0	---	---	4
5	---	---	0 B	2.76	0.061	0.270	0.001	0	0	0	---	---	5
6	---	---	0 B	1.97	0.060	0.082	0.001	0	0	0	---	---	6
7	---	---	0 B	1.48	0.059	0.053	0.001	0	0	0	---	---	7
8	---	---	0 B	1.35	0.049	0.058	0.002	0	0	0	---	---	8
9	---	---	0 B	1.09	0.042	0.213	0.001	0	0	0	---	---	9
10	---	---	0.001B	0.800	0.036	0.074	0	0	0	0	---	---	10
11	---	---	0.052B	0.694	0.028	0.257	0	0	0	0	---	---	11
12	---	---	0.080B	0.568	0.023	0.636	0	0	0	0	---	---	12
13	---	---	3.44 B	0.541	0.016	0.356	0	0	0	0	---	---	13
14	---	---	6.95 B	0.519	0.014	0.341	0	0	0	0	---	---	14
15	---	---	2.86 B	0.503	0.019	0.180	0	0	0	0	---	---	15
16	---	---	1.50 B	0.486	0.272	0.038	0	0	0	0	---	---	16
17	---	---	1.01 B	0.364	0.597	0.009	0	0	0	0	---	---	17
18	---	---	0.900B	0.280	0.858	0.008	0	0	0	0	---	---	18
19	---	---	0.648B	0.259	0.496	0.097	0	0	0	0	---	---	19
20	---	---	0.467B	0.238	0.310	0.169	0	0	0	0	---	---	20
21	---	---	0.521B	0.207	0.220	0.084	0	0	0	0	---	---	21
22	---	---	0.481B	0.206	0.192	0.043	0	0	0	0	---	---	22
23	---	---	0.371B	0.186	0.160	0.077	0	0	0	0	---	---	23
24	---	---	0.238B	0.145	0.137	0.063	0	0	0	0	---	---	24
25	---	---	0.172B	0.165	0.103	0.097	0	0	0	0	---	---	25
26	---	---	0.141B	0.179	0.148	0.084	0	0	0	0	---	---	26
27	---	---	0.146B	0.173	0.090	0.044	0	0	0	0	---	---	27
28	---	---	0.215B	0.164	0.066	0.013	0	0	0	0	---	---	28
29	---	---	0.812	0.149	0.057	0.006	0	0	0	0	---	---	29
30	---		8.11	0.131	0.050	0.002	0	0	0	0	---	---	30
31	---		16.9		0.053		0	0		0		---	31
TOTAL	---	---	46.015	38.547	4.549	3.583	0.016	0	0	0	---	---	TOTAL
MEAN	---	---	1.48	1.28	0.147	0.119	0.001	0	0	0	---	---	MEAN
MAX	---	---	16.9	8.70	0.858	0.636	0.004	0	0	0	---	---	MAX
MIN	---	---	0	0.131	0.014	0.002	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.378
MAXIMUM DAILY, 16.9 ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
20.5 AT 11:56 CST ON MAR 31

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 51 32 N
LONG 099 49 34 W
DRAINAGE AREA, 608 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1.38
FEB	---	AUG	0
MAR	3 980	SEP	0
APR	3 330	OCT	0
MAY	393	NOV	---
JUN	310	DEC	---

TOTAL DISCHARGE, 8 010 dam³

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.90	0.009	0.535	---	---	---	---	---	---	1
2	---	---	0 B	1.82	0.008	1.44	---	---	---	---	---	---	2
3	---	---	0 B	2.18	0.014	1.86	---	---	---	---	---	---	3
4	---	---	0 B	1.70	0.015	0.926	---	---	---	---	---	---	4
5	---	---	0 B	1.36	0.043	0.675	---	---	---	---	---	---	5
6	---	---	0 B	0.716	0.109	0.571	---	---	---	---	---	---	6
7	---	---	0 B	0.669	0.156	0.470	---	---	---	---	---	---	7
8	---	---	0 B	0.675	0.220	5.27 A	---	---	---	---	---	---	8
9	---	---	0 B	0.601	0.239	3.65 A	---	---	---	---	---	---	9
10	---	---	0 B	0.514	0.215	2.04	---	---	---	---	---	---	10
11	---	---	0 B	0.405	0.197	1.37	---	---	---	---	---	---	11
12	---	---	0 B	0.378	0.175	3.13	---	---	---	---	---	---	12
13	---	---	0 B	0.374	0.170	2.95	---	---	---	---	---	---	13
14	---	---	0 B	0.348	0.192	1.55	---	---	---	---	---	---	14
15	---	---	0 B	0.302	0.215	0.841	---	---	---	---	---	---	15
16	---	---	0 B	0.273	0.269	0.559	---	---	---	---	---	---	16
17	---	---	0 B	0.227	0.335	0.404	---	---	---	---	---	---	17
18	---	---	0 B	0.196	0.378	0.298	---	---	---	---	---	---	18
19	---	---	0 B	0.227	0.369	0.280	---	---	---	---	---	---	19
20	---	---	0 B	0.193	0.311	0.256	---	---	---	---	---	---	20
21	---	---	0 B	0.088	0.278	0.468	---	---	---	---	---	---	21
22	---	---	0 B	0.014	0.282	0.950	---	---	---	---	---	---	22
23	---	---	0 B	0.014	0.309	0.635	---	---	---	---	---	---	23
24	---	---	0 B	0.008	0.340	0.386	---	---	---	---	---	---	24
25	---	---	0 B	0.010	0.378	0.261	---	---	---	---	---	---	25
26	---	---	0 B	0.030	0.384	0.190	---	---	---	---	---	---	26
27	---	---	0 B	0.027	0.364	0.183	---	---	---	---	---	---	27
28	---	---	0 B	0.010	0.360	0.327	---	---	---	---	---	---	28
29	---	---	0.039B	0.007	0.365	0.540	---	---	---	---	---	---	29
30	---		0.318B	0.008	0.373	0.554	---	---	---	---	---	---	30
31	---		1.60 B		0.377		---	---		---		---	31
TOTAL	---	---	1.957	15.274	7.449	30.569	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.063	0.509	0.240	1.02	---	---	---	---	---	---	MEAN
MAX	---	---	1.60	2.18	0.384	3.65	---	---	---	---	---	---	MAX
MIN	---	---	0	0.007	0.008	0.183	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.453
MAXIMUM DAILY, 3.65A ON JUN 09
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.67E AT 23:14 CST ON JUN 08

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 34 50 N
LONG 097 02 40 W
DRAINAGE AREA, 253 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	169	SEP	---
APR	1 320	OCT	---
MAY	644	NOV	---
JUN	2 640	DEC	---

TOTAL DISCHARGE, 4 770 dam³

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ801

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	357.896A	357.884	357.817	---	---	---	---	---	1
2	---	---	---	---	357.893	357.887	357.817	---	---	---	---	---	2
3	---	---	---	---	357.893	357.887	357.817	---	---	---	---	---	3
4	---	---	---	---	357.899	357.881	357.817	---	---	---	---	---	4
5	---	---	---	---	357.911	357.881	357.817	---	---	---	---	---	5
6	---	---	---	---	357.918	357.881	357.817	---	---	---	---	---	6
7	---	---	---	---	357.921	357.878	357.817	---	---	---	---	---	7
8	---	---	---	---	357.918	357.918	357.817	---	---	---	---	---	8
9	---	---	---	---	357.908	357.908	357.817	---	---	---	---	---	9
10	---	---	---	---	357.905	357.884	357.817	---	---	---	---	---	10
11	---	---	---	---	357.902	357.866	357.820	---	---	---	---	---	11
12	---	---	---	---	357.896	357.850	357.820	---	---	---	---	---	12
13	---	---	---	---	357.887	357.841	357.820	---	---	---	---	---	13
14	---	---	---	---	357.881	357.835	357.820	---	---	---	---	---	14
15	---	---	---	---	357.875	357.835	357.820	---	---	---	---	---	15
16	---	---	---	---	358.094	357.829	357.820	---	---	---	---	---	16
17	---	---	---	---	358.097	357.829	357.820	---	---	---	---	---	17
18	---	---	---	---	358.039	357.826	357.820	---	---	---	---	---	18
19	---	---	---	---	358.027	357.826	357.820	---	---	---	---	---	19
20	---	---	---	---	357.963	357.829	357.820	---	---	---	---	---	20
21	---	---	---	---	357.927	357.832	357.820	---	---	---	---	---	21
22	---	---	---	358.094A	357.918	357.832	357.820	---	---	---	---	---	22
23	---	---	---	358.094A	357.911	357.829	357.820	---	---	---	---	---	23
24	---	---	---	358.064A	357.902	357.829	357.820	---	---	---	---	---	24
25	---	---	---	358.140A	357.893	357.826	357.820	---	---	---	---	---	25
26	---	---	---	358.003A	357.896	357.823	357.820	---	---	---	---	---	26
27	---	---	---	---	357.905	357.820	---	---	---	---	---	---	27
28	---	---	---	---	357.899	357.820	---	---	---	---	---	---	28
29	---		---	---	357.896	357.820	---	---	---	---	---	---	29
30	---		---	---	357.893	357.820	---	---	---	---	---	---	30
31	---		---		357.887		---	---		---		---	31
MEAN	---	---	---	---	357.924	357.850	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	358.097	357.918	---	---	---	---	---	---	MAX
MIN	---	---	---	---	357.875	357.820	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 43 46 N
LONG 099 33 15 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
22.8 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	25.2 B	2.85	0.912	0.204	0.058	0.001	0.001	---	---	1
2	---	---	0 B	17.7 B	2.70	0.768	0.238	0.053	0.001	0.001	---	---	2
3	---	---	0 B	14.4 B	3.09	0.866	0.247	0.080	0.002	0.001	---	---	3
4	---	---	0 B	22.7 B	3.43	0.714	0.238	0.049	0.001	0.001	---	---	4
5	---	---	0 B	18.3 B	3.17	0.704	0.357	0.041	0.001	0.002	---	---	5
6	---	---	0 B	12.8 B	2.77	0.660	0.376	0.035	0.001	0.001	---	---	6
7	---	---	0 B	10.6 B	2.48	0.617	0.375	0.028	0.001	0.001	---	---	7
8	---	---	0 B	8.55B	2.23	0.611	0.767	0.022	0.001	0.001	---	---	8
9	---	---	0 B	6.72B	2.14	1.56	1.02	0.017	0.001	0.002	---	---	9
10	---	---	0 B	4.82B	1.90	2.55	0.756	0.011	0.001	0.001	---	---	10
11	---	---	0 B	3.57B	1.79	2.11	0.646	0.009	0.001	0.001	---	---	11
12	---	---	0 B	2.28B	1.99	1.49	0.507	0.008	0.001	0.002	---	---	12
13	---	---	0 B	2.37B	1.74	0.974	0.419	0.004	0.001	0.002	---	---	13
14	---	---	0 B	3.92B	1.40	0.678	0.347	0.002	0.001	0.002	---	---	14
15	---	---	0 B	4.44B	1.16	0.569	0.266	0.002	0.001	0.002	---	---	15
16	---	---	0 B	4.74	2.44	0.526	0.216	0.002	0.001	0.002	---	---	16
17	---	---	0 B	4.51	14.7	0.471	0.238	0.002	0.001	0.002	---	---	17
18	---	---	0 B	5.75	15.2	0.450	0.198	0.002	0.001	0.002	---	---	18
19	---	---	0 B	11.8	9.72	0.456	0.185	0.002	0.001	0.002	---	---	19
20	---	---	0 B	18.3	6.56	0.586	0.250	0.002	0.001	0.002	---	---	20
21	---	---	0 B	19.7	6.38	0.407	0.216	0.002	0.001	0.002	---	---	21
22	---	---	0 B	20.2	6.70	0.420	0.179	0.002	0.001	0.002	---	---	22
23	---	---	0 B	19.7	6.12	0.407	0.163	0.002	0.001	0.002	---	---	23
24	---	---	0 B	17.6	4.84	0.337	0.147	0.002	0.001	0.002	---	---	24
25	---	---	0 B	13.8	3.49	0.283	0.134	0.002	0.001	0.002	---	---	25
26	---	---	0 B	9.51	2.65	0.259	0.113	0.002	0.001	0.002	---	---	26
27	---	---	0 B	6.14	2.01	0.231	0.108	0.002	0.001	0.002	---	---	27
28	---	---	0 B	3.66	1.55	0.266	0.091	0.002	0.001	0.002	---	---	28
29	---	---	0 B	3.05B	1.26	0.210	0.078	0.002	0.001	0.002	---	---	29
30	---		2.86B	3.42	0.962	0.196	0.067	0.002	0.001	0.002	---	---	30
31	---		12.9 B		0.772		0.065	0.001		0.002A		---	31
TOTAL	---	---	15.76	320.25	120.194	21.288	9.211	0.430	0.031	0.053	---	---	TOTAL
MEAN	---	---	0.50	10.7	3.88	0.710	0.297	0.014	0.001	0.002	---	---	MEAN
MAX	---	---	12.9	25.2	15.2	2.55	1.02	0.060	0.002	0.002	---	---	MAX
MIN	---	---	0	2.28	0.772	0.196	0.065	0.001	0.001	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.99
MAXIMUM DAILY, 25.2B ON APR 01
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
29.9B AT 16:22 CST ON APR 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 09 30 N
LONG 100 20 00 W
DRAINAGE AREA, 669 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	796
FEB	---	AUG	37.2
MAR	1 360	SEP	2.68
APR	27 700	OCT	4.58
MAY	10 400	NOV	---
JUN	1 840	DEC	---

TOTAL DISCHARGE, 42 100 dam³

WINNIPEG RIVER AT LAC DU BONNET - STATION NO. 05PF062

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	254.917	254.917	254.887	254.857	254.857	254.867	254.967	254.855	254.765	254.794	254.784	254.954	1
2	254.907	254.947	254.957	254.887	254.917	254.967	254.967	254.815	254.785	254.764	254.724	254.904	2
3	254.897	254.947	254.947	254.907	254.777	254.937	254.957	254.825	254.815	254.684	254.774	254.934	3
4	254.937	254.947	254.897	254.927	254.737	254.967	254.940	254.855	254.849	254.714	254.884	254.954	4
5	254.947	254.947	254.967	254.937	254.867	254.937	254.897	254.845	254.814	254.734	254.934	254.934	5
6	254.947	254.937	254.897	254.927	254.917	254.877	254.937	254.855	254.834	254.774	254.904	254.894	6
7	254.947	254.947	254.957	254.867	254.927	254.857	254.987	254.935	254.834	254.784	254.834	254.894	7
8	254.927	254.917	254.967	254.897	254.887	254.947	254.987	254.855	254.784	254.864	254.818	254.884	8
9	254.917	254.947	254.917	254.897	254.847	254.957	254.937	254.835	254.794	254.924	254.854	254.914	9
10	254.927	254.917	254.947	254.817	254.867	254.937	254.947	254.825	254.754	254.777	254.914	254.964	10
11	254.907	254.947	254.937	254.824	254.927	254.927	254.937	254.765	254.744	254.814	254.894	254.963	11
12	254.967	254.987	254.957	254.868	254.907	254.947	254.927	254.775	254.814	254.884	254.884	254.944	12
13	255.027	254.897	254.917	254.897	254.967	254.897	254.917	254.795	254.794	254.854	254.874	254.894	13
14	254.997	254.847	254.927	254.957	254.917	254.937	254.867	254.815	254.794	254.914	254.934	254.864	14
15	254.927	254.847	254.947	254.897	254.866	254.897	254.877	254.805	254.854	254.914	254.914	254.914	15
16	254.887	254.947	254.957	254.917	254.887	254.917	254.887	254.895	254.794	254.824	254.834	254.964	16
17	254.937	254.917	254.867	254.787	254.887	254.877	254.877	254.925	254.744	254.764	254.874	254.954	17
18	254.917	254.967	254.987	254.817	254.887	254.917	254.877	254.855	254.724	254.764	254.984	254.894	18
19	254.877	254.967	254.977	254.857	254.877	254.937	254.867	254.885	254.754	254.814	254.894	254.840	19
20	254.917	255.007	254.957	254.837	254.917	254.997	254.897	254.925	254.784	254.824	254.904	254.782	20
21	254.907	255.007	254.947	254.827	254.917	255.007	254.937	254.955	254.904	254.874	254.974	254.774	21
22	254.947	254.917	254.897	254.887	254.987	255.007	254.967	254.815	254.884	254.934	254.904	254.720	22
23	254.967	254.857	254.847	254.917	254.947	254.927	254.977	254.825	254.804	254.914	254.914	254.800	23
24	254.947	254.857	254.997	254.857	254.897	254.947	254.937	254.895	254.804	254.804	254.944	254.890	24
25	254.957	254.837	254.857	254.837	254.897	254.937	254.857	254.885	254.864	254.884	254.944	254.860	25
26	254.947	254.887	254.967	254.797	254.867	254.917	254.817	254.895	254.814	254.944	254.954	254.870	26
27	254.937	254.910	254.947	254.787	254.917	254.917	254.817	254.875	254.824	254.924	254.884	254.870	27
28	254.947	254.917	254.897	254.787	254.947	254.877	254.947	254.825	254.764	254.974	254.844	254.850	28
29	254.937		254.897	254.917	254.887	254.867	254.997	254.795	254.704	254.864	254.864	254.850	29
30	254.877		254.917	254.897	254.907	254.937	254.987	254.765	254.744	254.804	254.864	254.890	30
31	254.917		254.967		254.897		254.920	254.765		254.774		254.900	31
MEAN	254.933	254.925	254.929	254.870	254.891	254.928	254.923	254.846	254.796	254.839	254.884	254.888	MEAN
MAX	255.027	255.007	254.997	254.957	254.987	255.007	254.997	254.955	254.904	254.974	254.984	254.964	MAX
MIN	254.877	254.837	254.847	254.787	254.737	254.857	254.817	254.765	254.704	254.684	254.724	254.720	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 254.888
MAXIMUM DAILY, 255.027 ON JAN 13
MINIMUM DAILY, 254.684 ON OCT 03

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 15 35 N
LONG 096 03 20 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 132 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1963 ADJ.)

WINNIPEG RIVER AT MCARTHUR GENERATING STATION - STATION NO. 05PF068

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	708	748	564	716	558	646	1 010	1 060	709	495	561	583	1
2	709	662	689	637	530	564	1 090	993	701	503	532	578	2
3	685	819	737	643	486	656	1 090	953	595	378	349	580	3
4	683	696	552	576	330	672	1 090	944	768	473	387	630	4
5	709	841	700	645	209	760	1 010	934	727	425	512	585	5
6	770	711	578	725	498	792	964	936	732	342	591	640	6
7	747	730	623	564	531	661	1 080	948	683	348	516	619	7
8	744	798	725	620	429	702	1 180	931	709	386	548	453	8
9	750	771	632	707	336	701	1 170	895	661	566	417	451	9
10	772	773	626	610	357	785	1 170	858	744	456	570	611	10
11	735	650	663	639	432	912	1 180	793	562	438	416	577	11
12	655	771	692	644	374	875	1 180	750	622	577	597	652	12
13	799	837	704	557	335	857	1 170	754	642	440	514	650	13
14	847	742	675	605	593	810	1 150	869	558	361	533	598	14
15	873	652	676	503	488	845	1 100	678	661	575	626	526	15
16	760	780	809	796	556	876	1 090	756	632	466	599	545	16
17	729	706	644	560	523	794	1 080	865	671	481	415	619	17
18	738	643	667	529	579	822	1 080	886	576	411	477	693	18
19	671	717	711	550	245	794	1 000	656	562	547	611	679	19
20	711	722	663	487	591	930	985	873	405	509	510	667	20
21	682	812	723	456	445	996	1 010	844	553	424	481	609	21
22	704	831	729	402	567	1 100	1 060	820	622	517	569	459	22
23	760	756	815	618	635	1 010	1 100	734	609	524	547	413	23
24	756	705	629	530	552	996	1 120	712	510	494	434	542	24
25	729	671	448	586	617	1 090	1 080	790	572	496	614	547	25
26	754	628	689	607	535	1 060	1 080	789	537	581	614	660	26
27	692	712	726	594	503	1 060	947	793	530	491	620	594	27
28	717	716	700	442	660	1 050	957	804	543	513	634	663	28
29	821		690	546	590	937	1 080	788	518	725	604	557	29
30	694		567	663	551	929	1 110	782	355	542	599	599	30
31	673		651		613		1 090	741		503		669	31
TOTAL	22 777	20 600	20 697	17 757	15 248	25 682	33 503	25 929	18 269	14 987	15 997	18 248	TOTAL
MEAN	735	736	668	592	492	856	1 080	836	609	483	533	589	MEAN
MAX	873	841	815	796	660	1 100	1 180	1 060	768	725	634	693	MAX
MIN	655	628	448	402	209	564	947	656	355	342	349	413	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE YEAR 1990

MEAN, 684
MAXIMUM DAILY, 1 180 ON JUL 08
MINIMUM DAILY, 209 ON MAY 05

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 50 23 53 N
LONG 095 59 50 W

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 970 000	JUL	2 890 000
FEB	1 780 000	AUG	2 240 000
MAR	1 790 000	SEP	1 580 000
APR	1 530 000	OCT	1 290 000
MAY	1 320 000	NOV	1 380 000
JUN	2 220 000	DEC	1 580 000

DATA CONTRIBUTED BY -
MANITOBA HYDRO

REGULATED SINCE 1954

TOTAL DISCHARGE, 21 600 000 dam³

EMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

WINNIPEG RIVER AT PINE FALLS GENERATING STATION - STATION NO. 05PF069

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	758	739	586	778	548	644	1 050	1 170	706	473	587	562	1
2	721	705	669	656	541	597	1 150	1 090	736	500	541	563	2
3	665	810	759	643	507	773	1 150	1 030	664	388	362	612	3
4	698	665	528	598	369	696	1 150	1 020	705	465	406	622	4
5	725	857	700	641	242	826	1 100	943	736	474	524	600	5
6	765	714	634	724	508	848	1 040	916	714	372	563	611	6
7	756	759	626	593	525	736	1 120	949	727	342	536	600	7
8	763	784	734	601	475	723	1 210	988	730	415	556	450	8
9	759	757	670	706	386	732	1 250	901	949	531	452	430	9
10	759	798	626	648	344	796	1 250	822	720	518	585	611	10
11	782	657	664	629	423	1 000	1 250	866	612	434	434	535	11
12	701	743	693	657	424	932	1 260	724	607	579	615	667	12
13	704	860	722	566	308	934	1 230	718	668	478	538	635	13
14	861	728	662	628	674	811	1 230	891	595	328	513	602	14
15	861	680	704	490	511	940	1 150	739	650	616	605	529	15
16	790	760	792	783	507	859	1 150	707	655	449	599	518	16
17	700	741	735	580	577	894	1 160	853	676	497	430	625	17
18	764	639	644	513	574	812	1 150	932	578	426	446	682	18
19	688	714	733	540	312	834	1 110	662	570	511	645	684	19
20	695	737	714	523	601	988	1 080	852	451	524	504	635	20
21	701	799	729	466	430	1 140	1 080	891	503	485	447	621	21
22	729	864	728	397	580	1 230	1 100	799	628	478	569	496	22
23	751	799	829	631	662	1 180	1 130	722	664	543	560	403	23
24	775	680	660	550	584	1 120	1 140	716	528	517	430	522	24
25	740	716	479	579	601	1 150	1 080	784	569	527	622	534	25
26	739	648	673	618	586	1 170	1 120	789	555	558	590	643	26
27	725	701	720	629	483	1 130	1 010	785	551	509	622	624	27
28	692	720	669	477	676	1 140	992	841	584	476	620	644	28
29	820		697	526	636	1 060	1 130	813	541	775	603	556	29
30	752		562	720	564	927	1 210	782	365	550	601	582	30
31	670		646		598		1 160	776		501		615	31
TOTAL	22 979	20 774	20 987	18 090	15 756	27 642	35 392	26 471	18 637	15 241	16 105	18 013	TOTAL
MEAN	741	742	677	603	508	921	1 140	854	621	492	537	581	MEAN
MAX	861	864	829	783	676	1 230	1 260	1 170	756	775	645	684	MAX
MIN	665	639	479	397	242	597	992	662	365	328	362	403	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 702
MAXIMUM DAILY, 1 260 ON JUL 12
MINIMUM DAILY, 242 ON MAY 05

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 50 34 03 N
LONG 096 10 39 W

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 990 000	JUL	3 060 000
FEB	1 790 000	AUG	2 290 000
MAR	1 810 000	SEP	1 610 000
APR	1 560 000	OCT	1 320 000
MAY	1 360 000	NOV	1 390 000
JUN	2 390 000	DEC	1 560 000

DATA CONTRIBUTED BY -
MANITOBA HYDRO

REGULATED SINCE 1951

TOTAL DISCHARGE, 22 100 000 dam³

REMARKS - FLOW CALCULATED FROM PLANT GENERATION AND FROM SPILL TABLES

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	699	776	702	641	460	585	1 010	1 230	756	442	548	588	1
2	699	800	684	655	399	610	1 010	1 230	735	437	544	619	2
3	715	793	693	679	408	586	1 020	1 100	709	486	505	620	3
4	753	793	666	609	402	604	1 050	1 040	760	480	489	600	4
5	782	757	661	643	378	595	1 110	1 050	738	471	579	594	5
6	843	783	652	629	417	567	1 110	1 010	714	460	535	551	6
7	769	798	676	625	390	646	1 140	874	708	450	546	542	7
8	797	792	677	635	400	656	1 120	846	717	477	539	548	8
9	781	828	678	609	382	642	1 200	828	667	467	540	559	9
10	779	767	693	637	395	745	1 250	821	681	500	583	540	10
11	797	764	670	665	381	730	1 270	816	696	514	553	596	11
12	794	768	686	663	398	719	1 270	827	667	486	504	621	12
13	870	758	706	648	403	734	1 240	824	709	505	587	593	13
14	840	772	738	584	425	796	1 200	828	659	432	566	588	14
15	795	800	682	585	477	758	1 200	830	666	443	544	583	15
16	768	757	679	571	512	801	1 200	828	608	446	520	604	16
17	750	796	739	535	553	760	1 190	827	617	510	517	588	17
18	722	757	708	558	483	808	1 170	834	612	499	529	594	18
19	749	759	657	507	400	779	1 170	833	582	558	519	616	19
20	740	797	661	504	448	820	1 180	824	615	550	525	592	20
21	772	800	668	455	488	833	1 180	803	572	535	522	537	21
22	778	746	717	473	513	919	1 170	806	583	551	503	539	22
23	776	746	715	515	460	973	1 120	797	584	530	521	549	23
24	771	724	698	484	519	998	1 130	816	529	559	520	585	24
25	751	723	652	515	523	1 030	1 130	817	545	535	541	591	25
26	797	732	687	515	588	1 010	1 130	791	516	622	556	632	26
27	747	716	677	548	574	1 020	1 170	792	504	557	531	626	27
28	758	716	656	658	539	1 030	1 260	787	517	565	662	546	28
29	738		656	630	567	1 030	1 270	787	497	536	626	633	29
30	756		647	471	564	1 010	1 260	770	505	520	649	615	30
31	741		641		582		1 270	785		527		645	31
TOTAL	23 827	21 518	21 122	17 446	14 428	23 814	36 200	27 051	18 968	15 650	16 403	18 234	TOTAL
MEAN	769	769	681	582	465	794	1 170	873	632	505	547	588	MEAN
MAX	870	828	739	679	588	1 030	1 270	1 230	760	622	662	645	MAX
MIN	699	716	641	455	378	567	1 010	770	497	432	489	537	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 698
MAXIMUM DAILY, 1 270 ON JUL 11
MINIMUM DAILY, 378 ON MAY 05

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 50 13 30 N
LONG 095 34 15 W
DRAINAGE AREA, 125 000 km²

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 060 000	JUL	3 130 000
FEB	1 860 000	AUG	2 340 000
MAR	1 820 000	SEP	1 640 000
APR	1 510 000	OCT	1 350 000
MAY	1 250 000	NOV	1 420 000
JUN	2 060 000	DEC	1 580 000

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

REGULATED SINCE 1907

TOTAL DISCHARGE, 22 000 000 dam³

WINNIPEG RIVER HEAD WATER SEVEN SISTERS POWER PLANT - STATION NO. 05PF057

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	274.103	274.125	274.128	274.146	274.119	274.097	274.198	274.110	274.082	274.027	274.091	274.134	1
2	274.146	274.119	274.122	274.116	274.100	274.146	274.158	274.137	274.079	274.085	274.079	274.137	2
3	274.161	274.125	274.143	274.131	274.088	274.131	274.100	274.103	274.091	274.125	274.113	274.146	3
4	274.128	274.137	274.140	274.119	274.131	274.125	274.079	274.024	274.100	274.085	274.103	274.128	4
5	274.119	274.128	274.146	274.122	274.152	274.171	274.146	274.103	274.107	274.100	274.116	274.128	5
6	274.119	274.097	274.131	274.122	274.158	274.116	274.152	274.131	274.091	274.110	274.100	274.116	6
7	274.107	274.119	274.125	274.140	274.085	274.094	274.198	274.088	274.091	274.122	274.131	274.097	7
8	274.119	274.127	274.103	274.103	274.091	274.100	274.189	274.049	274.079	274.137	274.091	274.091	8
9	274.107	274.107	274.116	274.122	274.119	274.116	274.152	274.015	274.049	274.076	274.140	274.155	9
10	274.158	274.116	274.134	274.146	274.161	274.100	274.085	274.003	274.088	274.131	274.149	274.143	10
11	274.143	274.107	274.122	274.137	274.143	274.116	274.100	274.079	274.076	274.073	274.149	274.134	11
12	274.137	274.119	274.055	274.149	274.156	274.091	274.064	274.091	274.097	274.015	274.119	274.097	12
13	274.113	274.107	274.122	274.119	274.152	274.088	274.046	274.094	274.085	274.076	274.116	274.116	13
14	274.076	274.100	274.131	274.125	274.131	274.119	274.061	274.119	274.097	274.073	274.091	274.134	14
15	274.107	274.107	274.125	274.119	274.128	274.091	274.033	274.100	274.079	273.985	274.103	274.125	15
16	274.116	274.100	274.137	274.119	274.113	274.085	274.039	274.119	274.085	274.097	274.128	274.128	16
17	274.107	274.119	274.155	274.128	274.128	274.103	274.113	274.116	274.107	274.110	274.125	274.122	17
18	274.085	274.119	274.146	274.119	274.103	274.116	274.076	274.128	274.119	274.122	274.126	274.116	18
19	274.143	274.131	274.146	274.149	274.152	274.140	274.067	274.134	274.146	274.100	274.131	274.094	19
20	274.122	274.122	274.158	274.103	274.143	274.149	274.100	274.082	274.128	274.082	274.131	274.125	20
21	274.122	274.119	274.161	274.152	274.161	274.097	274.116	274.085	274.107	274.073	274.110	274.067	21
22	274.134	274.097	274.164	274.134	274.119	274.000	274.122	274.100	274.046	274.067	274.097	274.119	22
23	274.128	274.119	274.116	274.131	274.073	274.097	274.039	274.100	274.036	274.097	274.140	274.088	23
24	274.122	274.116	274.131	274.140	274.116	274.073	273.994	274.113	274.091	274.110	274.146	274.143	24
25	274.143	274.119	274.149	274.134	274.088	274.094	274.122	274.131	274.076	274.100	274.137	274.140	25
26	274.134	274.110	274.134	274.137	274.134	274.140	274.186	274.097	274.061	274.073	274.091	274.107	26
27	274.125	274.107	274.134	274.097	274.131	274.097	274.152	274.097	274.061	274.097	274.146	274.079	27
28	274.107	274.100	274.146	274.113	274.088	274.073	274.100	274.116	274.064	274.094	274.119	274.116	28
29	274.091		274.140	274.097	274.094	274.110	273.994	274.082	274.094	274.052	274.107	274.107	29
30	274.110		274.137	274.079	274.103	274.174	273.939	274.100	274.046	274.058	274.140	274.097	30
31	274.107		274.137		274.091		274.039	274.088		274.110		274.149	31
MEAN	274.121	274.115	274.133	274.125	274.121	274.108	274.095	274.095	274.085	274.086	274.119	274.119	MEAN
MAX	274.161	274.137	274.164	274.152	274.161	274.174	274.198	274.137	274.146	274.137	274.149	274.155	MAX
MIN	274.076	274.097	274.055	274.079	274.073	274.000	273.939	274.003	274.036	273.985	274.079	274.067	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 274.110
MAXIMUM DAILY, 274.198 ON JUL 01
MINIMUM DAILY, 273.939 ON JUL 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 07 10 N
LONG 096 00 50 W
DATA CONTRIBUTED BY -
MANITOBA HYDRO

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
127 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

WINNIPEG RIVER TAILRACE, GREAT FALLS POWER PLANT - STATION NO. 05PF048

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	230.151	230.164	229.810	230.139	229.664	229.889	230.682	230.855	229.956	229.557	229.734	229.740	1
2	230.048	229.987	229.993	229.917	229.679	229.740	230.855	230.758	230.005	229.597	229.694	229.755	2
3	230.023	230.258	230.154	229.856	229.590	230.045	230.840	230.676	229.746	229.408	229.429	229.764	3
4	230.048	229.993	229.743	229.804	229.359	229.923	230.883	230.636	229.880	229.563	229.466	229.831	4
5	230.066	230.340	230.096	229.911	229.197	230.188	230.810	230.484	230.014	229.539	229.679	229.752	5
6	230.148	230.036	229.877	230.033	229.585	230.209	230.679	230.475	230.033	229.386	229.801	229.831	6
7	230.121	230.154	229.932	229.761	229.633	229.950	230.813	230.514	230.008	229.371	229.685	229.801	7
8	230.154	230.218	230.090	229.804	229.514	229.877	231.023	230.499	229.935	229.466	229.725	229.542	8
9	230.139	230.170	229.941	230.029	229.280	229.978	231.026	230.392	229.752	229.719	229.542	229.539	9
10	230.151	230.228	229.850	229.898	229.353	230.167	231.002	230.301	230.020	229.578	229.767	229.840	10
11	230.161	229.935	229.965	229.844	229.566	230.471	231.002	230.249	229.783	229.499	229.496	229.645	11
12	229.971	230.170	230.033	229.938	229.469	230.411	230.996	230.054	229.834	229.743	229.798	229.877	12
13	230.145	230.340	230.084	229.715	229.347	230.383	230.980	230.051	229.871	229.481	229.609	229.856	13
14	230.377	230.096	229.978	229.789	229.810	230.200	230.977	230.395	229.630	229.304	229.627	229.737	14
15	230.383	229.993	229.984	229.557	229.484	230.337	230.807	229.935	229.847	229.755	229.819	229.633	15
16	230.197	230.191	230.273	230.218	229.652	230.307	230.825	230.029	229.761	229.548	229.816	229.682	16
17	230.087	230.133	230.048	229.764	229.722	230.252	230.825	230.276	229.865	229.648	229.490	229.840	17
18	230.176	229.935	229.965	229.636	229.786	230.215	230.825	230.432	229.731	229.490	229.612	229.981	18
19	229.996	230.075	230.081	229.712	229.328	230.136	230.715	229.856	229.715	229.740	229.847	229.987	19
20	230.075	230.094	230.017	229.630	229.758	230.554	230.712	230.322	229.466	229.630	229.941	229.953	20
21	230.072	230.234	230.063	229.505	229.417	230.746	230.727	230.331	229.682	229.536	229.585	229.865	21
22	230.094	230.352	230.139	229.453	229.709	230.929	230.770	230.209	229.895	229.603	229.758	229.600	22
23	230.164	230.158	230.304	229.831	229.868	230.831	230.877	230.051	229.856	229.719	229.731	229.496	23
24	230.218	230.036	229.935	229.676	229.603	230.758	230.846	229.953	229.597	229.697	229.545	229.691	24
25	230.069	230.005	229.578	229.761	229.831	230.855	230.810	230.191	229.709	229.624	229.798	229.706	25
26	230.158	229.901	229.975	229.819	229.725	230.868	230.849	230.164	229.606	229.758	229.801	229.914	26
27	230.121	230.029	230.161	229.862	229.594	230.840	230.621	230.188	229.627	229.655	229.880	229.801	27
28	230.081	230.090	230.151	229.548	229.889	230.859	230.630	230.191	229.661	229.609	229.868	229.920	28
29	230.282		229.935	229.655	229.795	230.667	230.816	230.136	229.587	230.115	229.850	229.728	29
30	230.096		229.645	229.959	229.703	230.459	230.886	230.145	229.225	229.648	229.804	229.783	30
31	230.029		229.898		229.822		230.859	230.066		229.557		229.999	31
EAN	230.129	230.118	229.990	229.801	229.604	230.368	230.838	230.284	229.777	229.598	229.706	229.777	MEAN
AX	230.383	230.352	230.304	230.218	229.889	230.929	231.026	230.855	230.033	230.115	229.941	229.999	MAX
IN	229.971	229.901	229.578	229.453	229.197	229.740	230.621	229.856	229.225	229.304	229.429	229.496	MIN

ATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 229.999
MAXIMUM DAILY, 231.026 ON JUL 09
MINIMUM DAILY, 229.197 ON MAY 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 27 50 N
LONG 096 00 15 W
DATA CONTRIBUTED BY -
MANITOBA HYDRO

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
134 000 km²

ATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.335B	0.633B	32.6	7.91	24.1	1.74	0.479	0	---	---	1
2	---	---	0.335B	1.64 B	27.9	7.55	15.2	1.41	0.391	0	---	---	2
3	---	---	0.335B	8.12 B	25.2	7.04	11.4	1.13	0.365	0	---	---	3
4	---	---	0.335B	16.1 B	24.9	6.83	12.1	0.859	0.370	0	---	---	4
5	---	---	0.335B	31.5 B	25.4	6.20	14.5	0.694	0.291	0	---	---	5
6	---	---	0.336B	44.9 B	25.5	5.89	14.6	0.578	0.247	0	---	---	6
7	---	---	0.336B	39.5 B	25.7	5.87	14.9	0.488	0.208	0	---	---	7
8	---	---	0.336B	31.5 B	26.2	6.77	14.9	0.408	0.206	0	---	---	8
9	---	---	0.336B	23.7 B	26.6	7.06	14.6	0.334	0.230	0	---	---	9
10	---	---	0.336B	18.8 B	27.5	6.46	12.8	0.330	0.204	0	---	---	10
11	---	---	0.386B	15.3 B	28.4	5.88	12.3	0.350	0.179	0	---	---	11
12	---	---	0.427B	14.3 B	28.4	5.52	12.5	0.363	0.193	0	---	---	12
13	---	---	0.451B	13.6 B	26.8	5.14	11.5	0.441	0.154	0	---	---	13
14	---	---	0.467B	14.1 B	23.8	5.14	10.4	0.453	0.093	0	---	---	14
15	---	---	0.475B	15.2 B	21.1	4.72	8.67	0.466	0.053	0	---	---	15
16	---	---	0.475B	16.5 B	20.5	5.54	7.19	0.416	0.041	0	---	---	16
17	---	---	0.482B	14.7 B	22.3	4.61	6.51	0.396	0.036	0	---	---	17
18	---	---	0.482B	11.8 B	21.8	3.92	5.86	0.378	0.015	0	---	---	18
19	---	---	0.490B	13.6	20.7	3.75	5.08	0.393	0.001	0	---	---	19
20	---	---	0.497B	24.7	21.1	3.50	4.48	0.354	0.019	0	---	---	20
21	---	---	0.497B	35.6	21.0	3.43	3.97	0.350	0.015	0	---	---	21
22	---	---	0.505B	40.6	20.7	3.46	3.60	0.372	0	0	---	---	22
23	---	---	0.505B	45.7	19.8	3.40	3.14	0.327	0	0	---	---	23
24	---	---	0.513B	48.3	18.6	3.23	2.74	0.259	0	0	---	---	24
25	---	---	0.513B	51.1	17.0	3.10	2.42	0.302	0	0	---	---	25
26	---	---	0.520B	53.7	15.6	3.15	2.09	0.378	0	0	---	---	26
27	---	---	0.528B	52.8	13.7	5.73	1.91	0.471	0	0	---	---	27
28	---	---	0.528B	49.5	12.0	12.4	1.98	0.633	0	0.026	---	---	28
29	---	---	0.535B	42.6	10.9	22.0	2.53	0.626	0	0.029	---	---	29
30	---		0.535B	37.1	9.82	31.0	2.53	0.627	0	0.104	---	---	30
31	---		0.543B		8.71		2.08	0.583		0.110A		---	31
TOTAL	---	---	13.709	827.193	670.23	206.20	262.58	16.909	3.790	0.249	---	---	TOTAL
MEAN	---	---	0.442	27.6	21.6	6.87	8.47	0.546	0.126	0.008	---	---	MEAN
MAX	---	---	0.543	53.7	32.6	31.0	24.1	1.74	0.479	0.110	---	---	MAX
MIN	---	---	0.335	0.633	8.71	3.10	1.91	0.259	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.17
MAXIMUM DAILY, 53.7 ON APR 26
MINIMUM DAILY, 0 ON SEP 22
MAXIMUM INSTANTANEOUS,
54.1 AT 11:15 CST ON APR 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 15 30 N
LONG 101 08 15 W
DRAINAGE AREA, 2 110 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

REMARKS - STAGE-DISCHARGE RELATIONSHIP AFFECTED BY BEAVER ACTIVITY

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	22 700
FEB	---	AUG	1 460
MAR	1 180	SEP	327
APR	71 500	OCT	21.5
MAY	57 900	NOV	---
JUN	17 800	DEC	---

TOTAL DISCHARGE, 173 000 dam³

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